LCD-Monitor

Chassis

LMC17AS

Model

711MP

SERVICE Manual

LCD Monitor

Fashion Feature

- MFM Model
- UOC II -> UOC III
- Fast Response Time : 8ms
- China/ East-South Asia Model
- A low price Model
- High Contrast Ratio (700:1)
- High Picture from use of Comb-Filter
- High Luminance (300cd/m^2)
- Stereo Sound
- NICAM
- Clear edge from use of Media Window Enhancement(MWE)

1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC power jack before servicing.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):

   WARNING : Do not use an isolation transformer during this test.

   Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

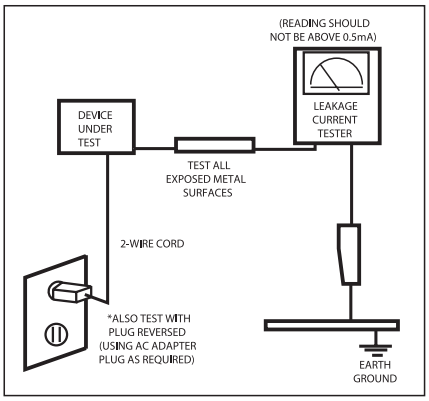


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.

Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4 Installation Precautions

1. For safety reasons, more than two people are required for carrying the product.

2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.

3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.

4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.

5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.

6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.

7. When installing the product, leave enough space (10cm) between the product and the wall for ventilation purposes.
   A rise in temperature within the product may cause fire.

Memo

14 Reference Infomation

14-1 Technical Terms

- TFT-LCD
(Thin film Transistor Liquid Crystal Display)
ADC(Analog to Digital Converter)
This is a circuit that converts from analog signal to digital signals.

- PLL(Phase Locked Loop)
During progressing ADC, Device makes clock synchronizing HSYNC with Video clock

- Inverter
Device that supply Power to LCD panel lamp. this device gernerate about 1,500~2,000V.

- AC Adapter
Device that converts AC(90V~240V) to DC(+12V or 14V)

- SMPS(Switching Mode Power Supply)
Switching Mode Power supply. This design technology is used to step up/down the input power by switching on/off

- FRC(Frame Rate Controller)
Technology that change image frame quantity displayed on screen for one second.
Actually TFT-LCD panel require 60 pcs of frame for one second.
so,this technology is needed to convert input image to 60 pcs regardless input frame quantity.

- Image Scaler
Technology that convert various input resolution to other resolution.(ex. 640* 480 to 1024*768)

- Auto Configuration(Auto adjustment)
This is an algorithm to adjust monitor to optimum condition by pushing one key.

- OSD(On Screen Display)
On screen display. customer can control the screen easily with this.

- Image Lock
This means "Fineness adjustment " in LCD Monitor, the features are "Fine" and "Coarse"

- FINE
"Fine" adjustment is used to adjust visibility by control phase difference.

- COARSE
This is a adjustment by tuning with Video colck and PLL clock.

- DVI (Digital Visual Interface)
This provides a high speed digital connection for visual data types that is display technology independent. this interface is primarily forcused at providing a connection between a computer and its display device.

- L.V.D.S.(Low Voltage Differential Signaling)
a kind of transmission method for Digital.It can be used from Main PBA to Panel.

- T.M.D.S
(Transition minimized Differential Signaling)
a kind of transmission method for Digital.
It can be used from Video card to Main PBA.

- DDC(Display data channel)
It is a communication method between Host Computer and related equipment.
It can make it Plug and Play between PC and Monitor.

- EDID
Extended Display Identification Data PC can recognize the monitor information as Product data, Product name,Display mode,Serial number and Signal source,etc through DDC Line communicating with PC and Monitor.

- Dot Pitch
The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the

same color is called the 'Dot Pitch'. Unit: mm

- Vertical Frequency
The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz
Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

- Horizontal Frequency
The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

- Interlace and Non-Interlace Methods
Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

- **Plug & Play**
This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

- Resolution
The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example: If the resolution is 1280 x 1024 , this means the screen is composed of 1280 horizontal dots (horizontal resolution) and 1024 vertical lines (vertical resolution).

- DVD
A type of digital disk technology that takes up only the benefits of CD and LD, to implement a high resolution/quality, which enables the user to enjoy clearer images.

- DTV
Broadcasting (Digital TV Broadcasting)
An enhanced broadcasting technology to process digital video signals using a set-top box, which implements a high resolution and clearer digital images on the screen.

- A2
This system uses two carriers to transmit voice data. Countries such as South Korea and Germany use this system.

- BTSC
Broadcast Television System Committee
The stereo broadcasting system that is used in most of the countries that have adopted the NTSC system, including the United States, Canada, Chile, Venezuela and Taiwan. It also refers to the organization that has been organized to promote its development and management.

- EIAJ
Electronic Industries Association of Japan.

- RF Cable
A round signal cable generally used for TV antennas.

- Satellite Broadcasting
Broadcasting service provided via satellite. Enables high picture quality and clear sound throughout the country regardless of the location of the viewer.

- Sound Balance
Balances the levels of the sound coming from each speaker in televisions with two speakers.

- Cable TV
Whereas the terrestrial broadcasting is delivered via frequency signals through the air, cable broadcasting is transmitted via a cable network. In order to view cable TV, one must purchase a cable receiver and hook it up to the cable network.

- CATV
"CATV" refers to the broadcasting service offered at hotels, schools and other buildings through their own broadcasting system, apart from VHF or UHF broadcasting by terrestrial broadcasters. The CATV programs may include movies, entertainment and educational programs. (Different from cable TV.)
CATV can be viewed only within the area in which the CATV service is offered.

- S-Video
Short for "Super Video." S-Video allows up to 800 lines of horizontal resolution, enabling high-quality video.

- VHF/UHF
VHF indicates TV channels 2 to 13, and UHF indicates channels 14 through 69.

- Channel Fine Tuning
This feature allows the viewer to fine-tune the TV

channel to obtain the best viewing conditions. The Samsung LCD TV has both automatic and manual channel fine-tuning features to enable the viewer to adjust their desired settings.

- External Device Input
External device input refers to video input from such external video device as VCR, camcorder and DVD player, separate from a TV broadcast.

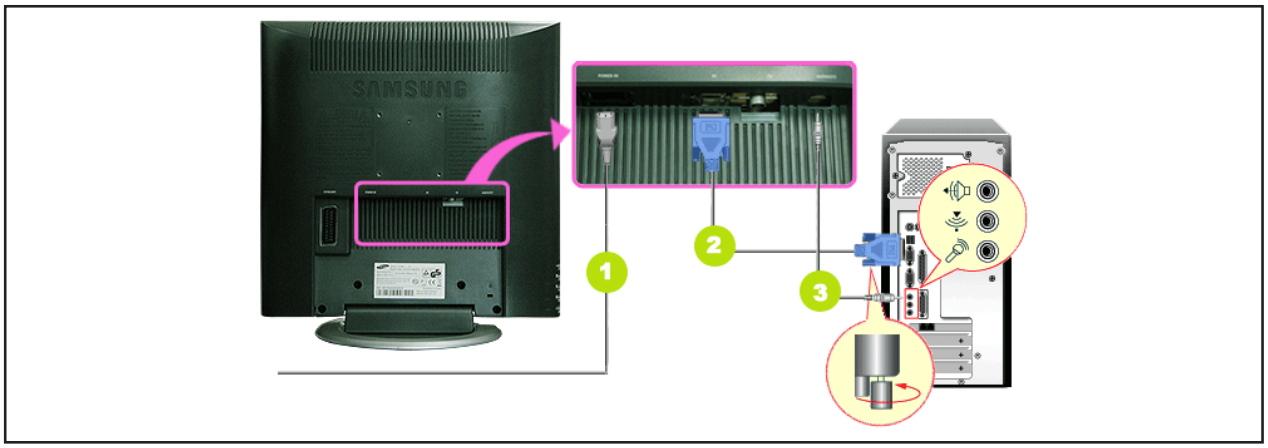
- LNA (Low Noise Amplifier)
This derives from artificial satellite technology that amplifies weak signals even in poor reception areas for sharper images.

- Antenna Converter
A connection part that is used to link a wide antenna cable (feeder cable) to the TV.

- English Caption (= Caption Setting)
A kind of language selection feature that provides English subtitles (caption) or character information services from broadcasting services (ex: AFKN) or video tapes (marked CC), and which are especially useful for studying English.

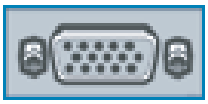
14-2 Connecting Your Monitor

- Connecting to a Computer



1. Connect the power cord for your monitor to the power port on the back of the monitor.
   Plug the power cord for the monitor into a nearby outlet.

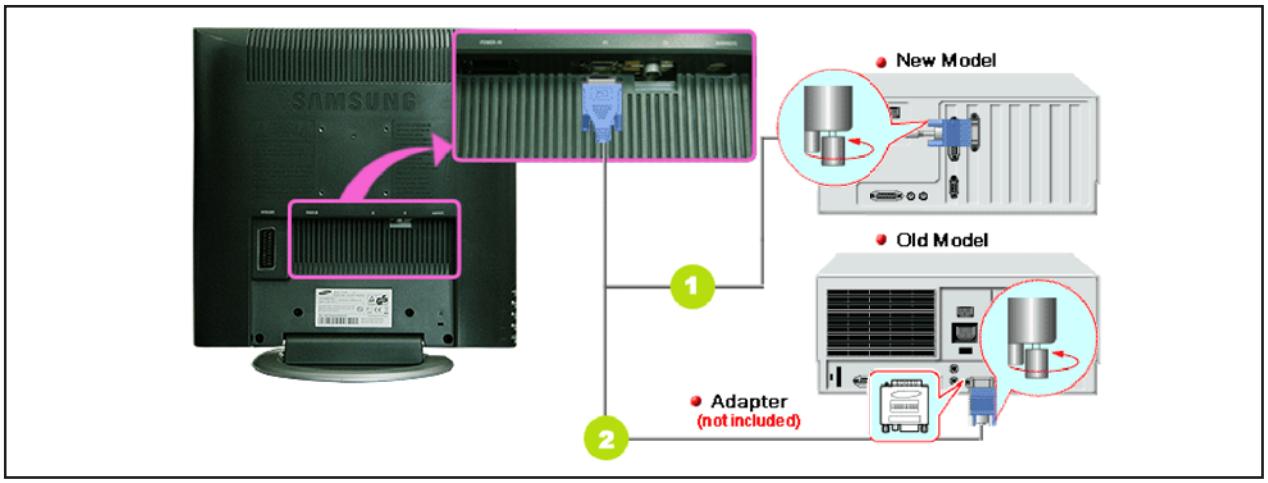
2. Using the D-sub (Analog) connector on the video card.
   Connect the signal cable to the 15-pin, D-sub connector on the back of your monitor.



3. Connect the audio cable for your monitor to the audio port on the back of your computer.

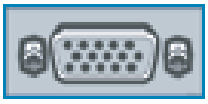
4. Turn on both your computer and the monitor.

- Connecting to a Macintosh



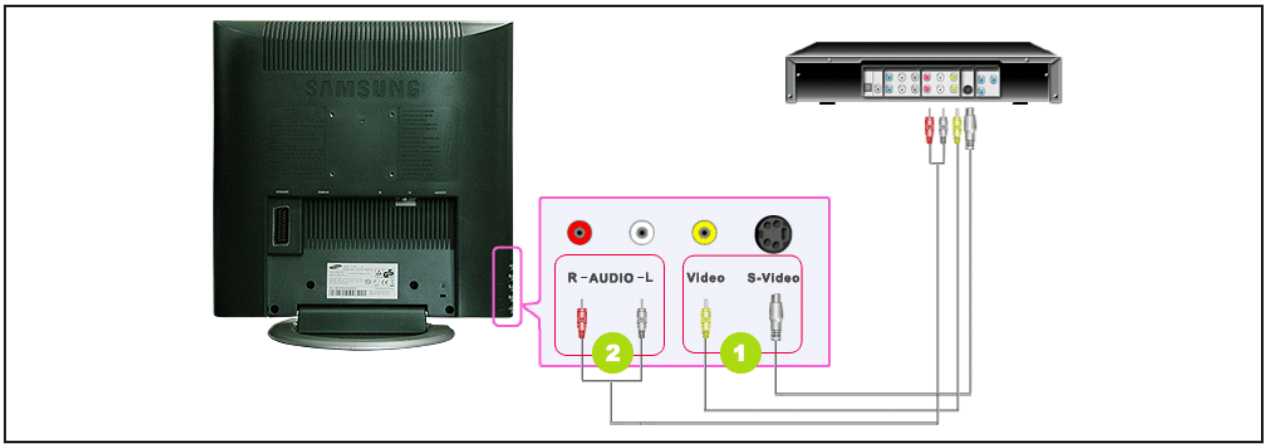
1. Using the D-sub (Analog) connector on the video card.
   Connect the signal cable to the D-SUB port on the Macintosh computer.

2.For old model Macintoshes, you need to adjust the resolution control DIP switch on the Macintosh adapter (optional) referring to the switch configuration table shown on its rear.



3. Turn on the monitor and Macintosh.

- Connecting AV Devices



1. Input devices such as DVD, VCR or Camcorder are connected to the Video or S-Video output terminal of the monitor using the S-Video cable.

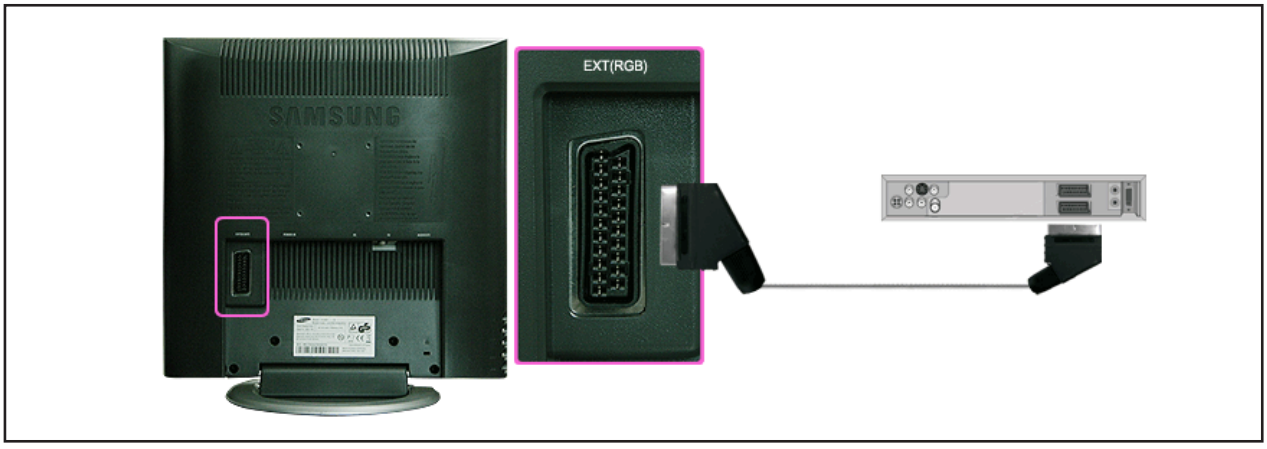
***S-Video cable is optional.**

2. Connect the Audio (R) and Audio (L) output terminals of a DVD, VCR or Camcorders to the monitor's R and L audio input terminals using audio cables.

3. Then, start the DVD, VCR or Camcorders with a DVD disc or tape inserted.

4. Select AV or S-Video using the SOURCE button.

- Connecting EXT(RGB) - It only applies to AV DEVICE that supports EXT(RGB).



1. Connect the SCART cable to the DVD SCART connector.

2. Select Ext. using the SOURCE button.

- Connecting TV

1. Connect the CATV or antenna coaxial cable to the Antenna terminal on the rear of the monitor.
   You need to use a coaxial antenna cable.

   - When using an interior antenna terminal:
     Check the antenna terminal on the wall first and connect the antenna cable.

   - When using an outdoor antenna:
     If you are using an outdoor antenna, use a professional for installation if possible.

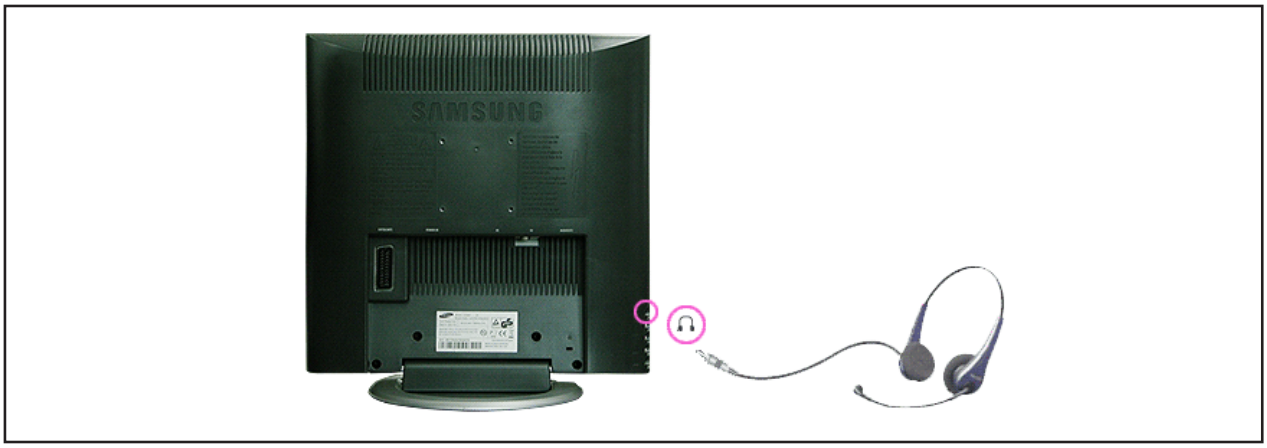
   - To connect the RF cable to the antenna input terminal:
     Keep the copper wire portion of the RF cable straight.

2. Turn on the monitor.

3. Select TV using SOURCE button among the external signal adjustment buttons.

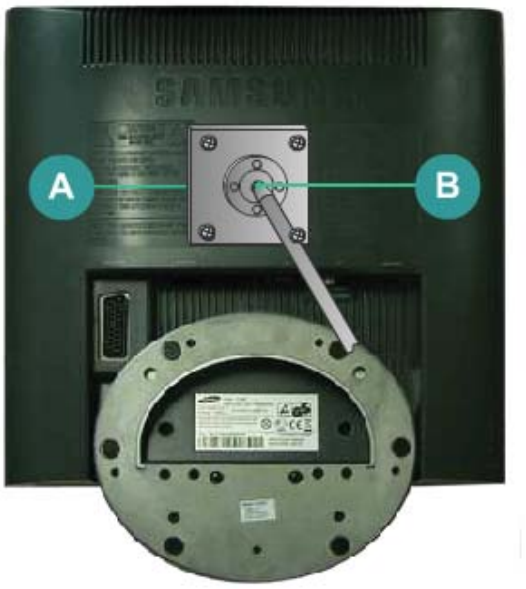
4. Select a desired TV channel after channel search.

- Connecting Headphone



1. Connect your Headphone to the Headphone connection terminal

- Attaching the Base



***This monitor accepts a 75 mm x 75 mm VESA-compliant mounting interface pad.**

A. Monitor

B. Mounting interface pad

1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. You should fold the stand 90 degrees perfectly.
4. Align the mounting interface pad with the holes in the rear cover mounting pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.

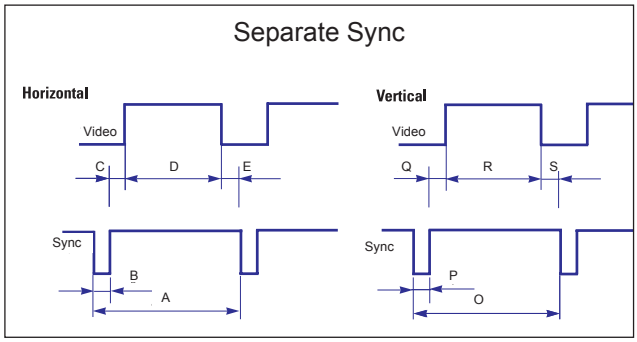
14-3 Pin Assignments

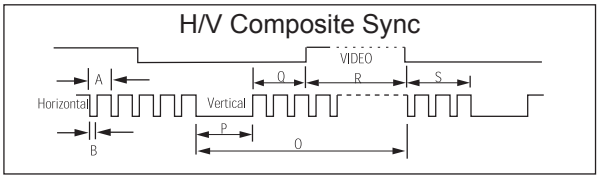
Sync Type / Pin No.	15-Pin Signal Cable Connector	
	Separate	**Composite**
1	Red	Red
2	Green	Green
3	Blue	Blue
4	GND	GND
5	GND (DDC Return)	GND (DDC Return)
6	GND-Red	GND-Red
7	GND-Green	GND-Green
8	GND-Blue	GND-Blue
9	DDC +5V	DDC +5V
10	CHK D_SUB	CHK D_SUB
11	GND	GND
12	DDC Data	DDC Data
13	Horizontal sync	H/V-Sync
14	Vertical sync	Not Used
15	DDC Clock	DDC Clock

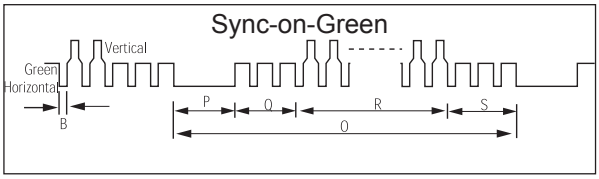
14-4 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Mode / Timing	IBM		VESA								
	VGA2/ 70 Hz 720 x 400	VGA3/ 60 Hz 640 x 480	640/75 Hz 640 x 480	640/85 Hz 640 x 480	800/75 Hz 800 x 600	800/85 Hz 800 x 600	1024/60Hz 1024 x 768	1024/75Hz 1024 x 768	1024/85Hz 1024x768	1280/76Hz 1280x1024 (Analog Only)	1280/75Hz 1280x1024 (Analog Only)
fH (kHz)	31.469	31.469	37.500	43.269	46.875	53.674	48.363	60.023	68.677	81.129	79.976
A µsec	31.777	31.778	26.667	23.111	21.333	18.631	20.677	16.660	14.561	16.640	12.504
B µsec	3.813	3.813	2.032	1.556	1.616	1.138	2.092	1.219	1.016	6.400	1.067
C µsec	1.589	1.589	3.810	2.222	3.232	2.702	2.462	2.235	2.201	2.880	1.837
D µsec	26.058	26.058	20.317	17.778	16.162	14.222	15.754	13.003	10.836		9.481
E µsec	0.318	0.318	0.508	1.556	0.323	0.569	0.369	0.203	0.508	3.200	0.119
fV (Hz)	70.087	59.940	75.000	85.008	75.000	85.061	60.004	75.029	84.997	76.106	75.025
O msec	14.268	16.683	13.333	11.764	13.333	11.756	16.666	13.328	11.765	10.660	13.329
P msec	0.064	0.064	0.080	0.671	0.064	0.056	0.124	0.050	0.044	0.080	0.038
Q msec	0.858	0.794	0.427	0.578	0.448	0.503	0.600	0.466	0.524	3.200	0.475
R msec	13.155	15.761	12.800	11.093	12.800	11.179	15.880	12.795	11.183		12.804
S msec	0.191	0.064	0.027	0.023	0.021	0.019	0.062	0.017	0.015	0.020	0.013
Clock Freq. (MHz)	28.322	25.175	31.500	49.500	49.500	56.250	75.000	78.750	94.500	135.000	135.000
Polarity H.Sync	Negative	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Negative	Positive
V.Sync	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Negative	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Com.	Separate







A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

14-5 Preset Timing Modes

-If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Table 1. Preset Timing

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+,-/+,-
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1280 x 1024	63.981	60.020	108.00	+/+
VESA, 1280 x 1024	79.976	75.025	135.00	+/+
VESA, 1280 x 1024	81.129	76.106	135.00	-/-

Horizontal Frequency
The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency
Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz

14-6 Panel Description

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LT140X1-002	BN07-00004A	SA	BN68-00239H	-
SEC	LT150XS-L01	BN07-00009A	SB		-
SEC	LT150XS-L01-B	BN07-00022A	SC		-
SEC	LTM150XS-L02	BN07-00005A	SD		-
SEC	LT181E2-132	BN07-00001A	SE		-
SEC	LT150XS-T01	BN07-00010A	SF		-
SEC	LTM181E3-132	BN07-00019A	SG		-
SEC	LT170E2-131	BN07-10001D	SH		-
SEC	LT181E2-131	BN07-10001E	SJ		-
SEC	LTM170E4-L01	BN07-00018A	SK		-
SEC	LTM240W1-L01	BN07-00015A	SL		-
SEC	LTM213U3-L01	BN07-00016A	SM		-
SEC	LTM150XH-L01	BN07-00026A	SN		
SEC	LTM150XH-L03	BN07-00027A	SP		-
SEC	LTM150XS-L01	BN07-00032A	SQ		DELL(ZPD)
SEC	LTM181E4-L01	BN07-00034A	SR		PVA
SEC	LTM170EH-L01	BN07-00036A	SS		TN
SEC	LTM170E5-L01	BN07-00037A	SU		PVA
SEC	LTM150XH-L11	BN07-00041A	SV		-
SEC	LTM213U4-L01	BN07-00039A	SW		PVA
SEC	LTM150XH-L01(ZPD)	BN07-00045A	SX		ZPD
SEC	LTM150XH-L04	BN07-00046A	SY		New panel with high brightness
SEC	LTM170W1-L01	BN07-00047A	SZ		Panel for TV
SEC	LTM150XH-L06	BN07-00053A	EA		Panel for TV/ High luminance for 450cd _ SONY&EOS Team Panel for TV
SEC	LTM153W1-L01	BN07-00054A	EB		Use NIKE MODEL
SEC	LTM170EH-L05	BN07-00055A	EC		Panel EOS proj. for high brightness of 17" EH-L05
SEC	LTM170E5-L03	BN07-00056A	ED		Dell 1702FP pro. E4. EH mechanical Compatible
SEC	LTM190E1-L01	BN07-00057A	EE		DELL 1900 FP
SEC	LTM181E5-L01	BN07-00061A	EF		18" narrow bezel GH18PS
SEC	LTM150XP-L01	BN07-00065A	EG		AMLCD PVA PANEL
SEC	LTM240W1-L02	BN07-00062A	EH		Panel for 15" Wide TV
SEC	LTM170EU-L01	BN07-00071A	EJ		Slim design, TN
SEC	LTM170E5-L04	BN07-00072A	EK		E5-L04 6 bits FRC... for IBM
SEC	LTA220W1-L01	BN07-00074A	EL		Panel for 22" TV
SEC	LTM170E6-L02	BN07-00075A	EM		AMLCD Narrow & slim design 17" PVA mode
SEC	LTM170W1-L01	BN07-00082A	EN		LTM170W1-L01 ZPD panel
SEC	LTM170EH-L01	BN07-00080A	EP		LTM170EH-L01 ZPD panel
SEC	LTM170E5-L01	BN07-00081A	EQ		LTM170E5-L01 ZPD panel
SEC	LTM170EH-L05	BN07-00083A	ER		LTM170EH-L05 ZPD panel
SEC	LTM170E5-L03	BN07-00084A	ES		LTM170E5-L03 ZPD panel
SEC	LTM170EU-L01	BN07-00085A	ET		LTM170EU-L01 ZPD panel
SEC	LTM170E5-L04	BN07-00086A	EU		LTM170E5-L04 ZPD panel
SEC	LTM170E6-L02	BN07-00087A	EV		LTM170E6-L02 ZPD panel
SEC	LTM150XH-L06	BN07-00091A	EW		Color coordinates change for LCD TV
SEC	LTM153W1-L01	BN07-00092A	EX		AMLCD WIDE 15",9/10
SEC	LTM170W1-L01	BN07-00100A	EY		Color Coordinates change code management
SEC	LTM170EH-L05	BN07-00097A	EZ		LTM170E5-L05 Color Coordinates Change Panel Code

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LTA400W1-L01	BN07-00109A	S1		PANEL of AMLCD 40" TV
SEC	LTM153W1-L01	BN07-00110A	S2		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM150XH-L06	BN07-00111A	S3		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170W1-L01	BN07-00112A	S4		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170EH-L05	BN07-00113A	S5		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM220W1-L01	BN07-00114A	S6		ZPD Panel for AMLCD 22" TV
SEC	LTM150XH-L06	BN07-00117A	S7		ZPD Panel code
SEC	LTM153W1-L01	BN07-00118A	S8		ZPD Panel code
SEC	LTM170WP-L01	BN07-00119A	S9		PVA Panel for NIKE
SEC	LTM213U4-L01	BN07-00039A	E1		21.3" NARROW
SEC	LTA260W1-L01	BN07-00121A	E2		VENUS
SEC	LTA220W1-L01	BN07-00074B	E3		"Panel B-level panel code for 22"" TV Panel "
SEC	LTA320W1-L01	BN07-00108A	E4		"Panel for AMLCD 32"" TV"
SEC	LTM213U4-L01	BN07-00124A	E5		NARROW BEZEL 21 " PANEL
SEC	LTM170E6-L04	BN07-00129A	E6		"HIGHLAND 17"" LOW PANEL (Panel only for TCO03)"
SEC	LTM190E1-L01	BN07-00088A	E7		LTM190E1-L01 ZPD panel
SEC	M150X4-L06	BN07-00137A	E8		15" Narrow & Slim panel
SEC	LTA170V1	BN07-00139A	E9		"17"" Panel for Muse 4:3 VGA TV"
SEC	LTM190E1-L02	BN07-00128A	E10		"New Panel from AMLCDl, Specification : 6bit Driver IC"
SEC	LTM170EX-L01	BN07-00143A	E11		"Development new Panel from AMLCD"
SEC	LTM170E8-L01	BN07-00144A	E12		"Development new Panel from AMLCD"
SEC	LTM170E6-L04	BN07-00129B	E13		"ZPD panel for AMLCD (Panel only for TCO03)"
SEC	LTA320W1-L02	BN07-00108B	E14		"Creat B-level Panel code for AMLCD 32"" TV"
SEC	LTM190E1-L03	BN07-00151A	E15		"Development new 19"" Panel form AMLCD (Panel only for TCO03)"
SEC	LTM240W1-L03	BN07-00134A	E16		"AMLCD 24"" panel development"
SEC	LTM190E1-L02	BN07-00128B	E17		"New Panel from AMLCD, Specification : 6bit Driver IC(ZPD)"
SEC	LTM190E4-L01	BN07-00145A	E18		"AMLCD 24"" new panel development"
SEC	LTM170E8-L01	BN07-00158A	E19		"ZPD code derivation"
SEC	LTM170EX-L01	BN07-00159A	E20		"ZPD code derivation"
SEC	LTM190E1-L03	BN07-00151B	E21		"Creat new panel code for AMLCD 19"" (Panel only for TCO03)"
SEC	LTA460H1-L01	BN07-00157A	E22		"creat panel code for AMLCD 46"" TV "
SEC	LTM170EU-L11	BN07-00160A	E23		"creat new panel code for AMLCD 17"" (Panel only for TCO03)"
SEC	LTM240W1-L03	BN07-00134B	E24		"24"" panel ZPD code derivation"
SEC	LTM190E4-L01	BN07-00145B	E25		"AMLCD 19"" ZPD Panel code derivation"
SEC	LTM240W1-L03	BN07-00134B	E26		"24"" panel ZPD code derivation"
SEC	LTM150XO-L01	BN07-00164A	E27		"AMLCD 15"" XO-L01 new panel development"
SEC	LTM150XO-L01	BN07-00164B	E28		"AMLCD 15"" XO-L01 ZPD code derivation"
SEC	LTM170EU-L11	BN07-00160B	E29		"AMLCD 17"" NEW panel code derivation"
SEC	LTA320W2-L01	BN07-00172A	SPZ		AMLCD 32" NEW panel
SEC	LTM213U4-L01	BN07-00124B	SPZ		21.3" Narrow PANEL ZPD Panel derivation
SEC	LTM170EU-L11	BN07-00189A	STH		AMLCD EU-L11 Pb free panel code derivation
SEC	LTM170EU-L11	BN07-00189B	STZ		AMLCD EU-L11 Pb free panel ZPD code derivation
SEC	LTM240W1-L04	BN07-00188A	SPH		24" A-DCC new panel development
SEC	LTM240W1-L04	BN07-00188B	SPZ		24" A-DCC panel ZPD code derivation
SEC	LTM190EX-L01	BN07-00191A	STH		AMLCD 19" TN new Panel
SEC	LTM190EX-L02	BN07-00191B	STZ		AMLCD 19" TN new Panel ZPD derivation
SEC	LTA230W1-L02	BN07-00184A	SPZ		AMLCD 23" 16:9 new Panel

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LTA260W2-L01	BN07-00185A	SPZ		AMLCD 26" 16:9 new Panel
SEC	LTM240M1-L01	BN07-00195A	SPH		24" panel with high brightness deveiopment
SEC	LTA400W2-L01	BN07-00186A	SPZ		AMLCD 40" 16:9 new Panel
SEC	LTM150XO-L01	BN07-00197A	STH		AMLCD 15" XO-L01 Pb free panel code
SEC	LTM150XO-L01	BN07-00197B	STZ		AMLCD 15" XO-L01 Pb free panel ZPD code
SEC	LTM170EU-L21	BN07-00202A	STZ		AMLCD EU-L21 ZPD new code derivation
SEC	LTA460W2-L03	BN07-00187A	SPZ		BEETOVEN 46"ZPD new panel
SEC	LTM240M1-L01	BN07-00195B	SPZ		24" igh brightness panel ZPD code derivation
SEC	M170EX-L21	BN07-00206A	STZ		AMLCD LTM170EX-L21 ZPD new code derivation
SEC	LTA460H3-L01	BN07-00200A	SPZ		AMLCD 46" LED BLU panel
SEC	LTM170EU-L15	BN07-00214A	STZ		AMLCD EU-L15 TV high brightness ZPD new code derivation
SEC	LTM170E8-L21	BN07-00218A	SPZ		AMLCD LTM170E8-L21 PVA ZPD new code derivation
SEC	LTM190EX-L21	BN07-00222A	STZ		DISPLAY LCD
SEC	LTM201U1-L01	BN07-00190B	SPZ		AMLCD 20.1" Normal panel ZPD code derivation
SEC	LTM190E4-L21	BN07-00223A	SPZ		HAYDN 17" PZD code PANEL derivation
SEC	LTA570H1-L01	BN07-00196A	SPZ		AMLCD 57" new panel development
SEC	LTM150XO-L21	BN07-00229A	STZ		AMLCD 15" XO-L21 8ms panel code
SEC	LTA260W2-L11	BN07-00239A	SPZ		AMLCD 26" 16:9 7Line new Panel
SEC	LTA400WS-LH1	BN07-00245A	SPZ		AMLCD 40" 16:9 SPVA 90% new Panel
SEC	LTM213U6-L01	BN07-00231A	SPZ		AMLCD 21.3" PVA new Panel Code
SEC	LTA320WS-LH2	BN07-00244A	SPZ		AMLCD 32" 16:9 SPVA 90% new Panel
SEC	LTA400WS-LH1	BN07-00245A	SPZ		AMLCD 40" 16:9 SPVA 90% new Panel
CPT	CLAA150XG09	BN07-00141A	PA		"CPT 15"" Monitor new panel development"
CPT	CLAA170EA02	BN07-00148A	PB		"17"" CPT NEW development panel"
CPT	CLAA170EA02	BN07-00148B	PC		"17"" CPT ZPD panel code derivation"
CPT	CLAA150XG09	BN07-00141B	PTZ		"CPT 15"" panel ZPD code derivation (GOYA-PJT)"
CPT	CLAA150XP01	BN07-00173A	PTH		CPT 15" PSWG code derivation
CPT	CLAA150XP01	BN07-00173B	PTZ		CPT 15" PSWG panel ZPD code
CPT	CLAA170EA07	BN07-00174A	PTH		"CPT 17"" PSWG panel code derivation
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17""" PSWG type new Panel code"""
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17" PSWG type new Panel code
CPT	CLAA170EA07Q	BN07-00220A	PTZ		CPT 17" PSWG R/T 8msec code derivation
CPT	CLAA170EA07Q	BN07-00220B	PTH		CPT 17" PSWG R/T 8msec HPD code derivation
CPT	CLAA150XP01F	BN07-00236A	PTZ		CPT 15" PSWG panel ZPD & Lead free code derivation
TOSHIBA	LTM15C419(A)	BN07-00002A	TA		-
TOSHIBA	LTM15C423(B)	BN07-00006A	TB		-
TOSHIBA	LTM18C161	BN07-00008A	TC		-
TOSHIBA	LTM15C443	BN07-00031A	TD		-
TOSHIBA	LTM15C458	BN07-00043A	TE		-
TOSHIBA	LTM15C458S	BN07-00077A	TF		"TSB 15"" high brightness Panel"
TOSHIBA	LTM15C458	BN07-00078A	TG		Toshiba ZPD panel
TOSHIBA	LTM15C458S	BN07-00099A	TH		TSB LTM15C458S (ZPD)
HANNSTAR	HSD150MX41A(A)	BN07-00020A	NA		"TTL type"
HANNSTAR	HSD150MX12	BN07-00030A	NB		"TTL type"
HANNSTAR	HSD170ME13	BN07-00180A	NTH		Hannstar 17" TN new panel development
HANNSTAR	HSD170ME13	BN07-00180B	NTZ		Hannstar 17" TN new panel development ZPD code derivation
HANNSTAR	HSD190ME12	BN07-00210A	NTZ		Hannstar 19" TN new panel development

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
HANNSTAR	HSD150MX17-A	BN07-00226A	NTZ		Hannstar 15" slim panel ZPD code derivation
TORISAN	TM150XG-22L03(A)	BN07-00021A	RA		-
TORISAN	TM150XG-26L06	BN07-00042A	RB		-
TORISAN	TM181SX-76N01	BN07-00048A	RC		-
TORISAN	TM150XG-26L06	BN07-00059A	RD		15" XGA TN MODE(ZPD)
TORISAN	TM290WX-71N31	BN07-00063A	RE		"RS24NS (TORISAN 29"" NEW PANEL)"
TORISAN	TM396WX-71N31	BN07-00064A	RF		"RS24NS (TORISAN 40"" NEW PANEL)"
TORISAN	TM150XG-26L09	BN07-00073A	RG		"Panel for 15"" TV"
TORISAN	TM150XG-26L10	BN07-00089A	RH		"L10(change except D/IC) ZPD"
TORISAN	TM150XG-26L10	BN07-00090A	RJ		L10 NORMAL
TORISAN	TM190SX-70N01	BN07-00098A	RK		Torisan 19" Panel
TORISAN	TM181SX-76N01	BN07-00106A	RL		ZPD Panel code
TORISAN	TM190SX-70N01	BN07-00107A	RM		ZPD Panel code
TORISAN	TM290WX-71N31	BN07-00115A	RN		"Color Coordinates change panel for TORISAN 29"" TV"
TORISAN	TM396WX-71N31	BN07-00116A	RP,Q		"Color Coordinates change panel for TORISAN 40"" TV"
TORISAN	TM22OWX-71N31	BN07-00125A	RR		"Development TORISAN 22"" TV PANEL (ZPD)"
TORISAN	TM22OWX-71N31	BN07-00127A	RS		"Development TORISAN 22"" TV PANEL (HPD)"
TORISAN	TM396WX-71N32A	BN07-00150A	RT		120V inverter Exclusive panel
TORISAN	TM190SX-70N02	BN07-00154A	RMH		Torisan 6bit panel code Derivation
TORISAN	TM190SX-70N02	BN07-00154B	RMZ		Torisan 6bit panel code Derivation
TORISAN	TM150XG-A01	BN07-00162A	RTH		Torisan 15" Narrow & Slim panel development
TORISAN	TM150XG-A01	BN07-00162B	RTZ		Torisan 15" N&S panel ZPD code Derivation
SHARP	LQ181E1DG11(A)	BN07-10001C	PA		-
SHARP	LQ150X1LW71	BN07-00067A	PB		SHARP 15" PVA PANEL
SHARP	LQ370T3LZ41	BN07-00216A	FAZ		Rome2
HITACHI	TX38D12VC0CAA(A)	BN07-00003A	HA		-
HITACHI	TX43DVCOCAB	BN07-00060A	HB		17" SXGA PVA MODE
HITACHI	TX43D15VC0CAB	BN07-00101A	HC		ZPD Panel
HITACHI	TX51D11VC0CAB	BN07-00122A	HD		20.1" NARROW
HITACHI	TX54D11VC0CAB	BN07-00123A	HE		21.3" NARROW
HITACHI	TX80D12VC0CAB	BN07-00169A	HIZ		"Development new panel for Hitachi 32"" TV (ZPD)"
HITACHI	TX54D11VC0CAB	BN07-00123B	HIZ		Hitachi 21.3"ZPD panel
IBM	ITSX94S	BN07-00017A	IA		-
UNIPAC	UM170E0	BN07-00028A	UA		Loaded by cisdba
HYUNDAI	HT15X13	BN07-00035A	DA		-
HYUNDAI	HT17E11-200	BN07-00049A	DB		TN MODE
HYUNDAI	HT17E11-300	BN07-00093A	DC		HT17E11-300 ZPD panel
HYUNDAI	HT17E11-400	BN07-00094A	DD		HT17E11-400 normal panel
HYUNDAI	HT17E11-400	BN07-00095A	DE		HT17E11-400 ZPD panel code
HYUNDAI	HT17E12	BN07-00096A	DF		HT17E12 (Narow & slim Design)
HYUNDAI	HT17E12	BN07-00105A	DG		ZPD Panel code
HYUNDAI	HT15X15-D00	BN07-00146A	DH		"Development for Ares 15"" Hydis TV"
HYUNDAI	HT15X15-D01	BN07-00146B	DJ		"Derivation panel HPD for Ares 15"" Hydis TV "
HYUNDAI	HT17E13-100	BN07-00167A	DTH		"PINEHURST-2(IBM) PJT 17"" HYDIS PANEL Derivation"
HYUNDAI	HT17E13-100	BN07-00167B	DTZ		"PINEHURST-2(IBM) Hydis 17"" ZPD code Derivation"
ACER	L170E3	BN07-00044A	AA		TN(ADT)
ACER	M170EN05	BN07-00076A	AB		AU 17" Panel (Narrow & slim design)

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
ACER	M170EN05	BN07-00102A	AC		ZPD Panel code
ACER	M190EN02	BN07-00170A	AMH		"AU Monitor 19"" new panel development (P19-1S)"
ACER	M190EN02	BN07-00170B	AMZ		"AU 19"" ZPD code derivation (ZPD)"
ACER	M170EN06	BN07-00171A	ATH		"AU Monitor 17"" New panel development "
ACER	T260XW01	BN07-00163A	AMZ		"AU 26"" new panel development (NF26EO)"
ACER	A201SN01	BN07-00177A	ATZ		"AU TV panel 20.1"" TN SVGA new panel development"
ACER	M170EN06	BN07-00171B	ATZ		AU Monitor 17" ZPD code derivation
ACER	T315XW01	BN07-00194A	AMZ		AU 32" new
ACER	M170EG01	BN07-00192A	ATH		AU TN PSWG type new Panel code
ACER	M170EG01	BN07-00192B	ATZ		AU TN PSWG type NEW panel code derivation
ACER	M190EN04	BN07-00203A	ATH		AU Monitor 19" ZPD new Panel code
ACER	T260XW02	BN07-00208A	AMZ		AUO 26" ZPD panel
ACER	M170EG01 V8	BN07-00221A	ATZ		AU TN PSWG type new Panel (8msec) ZPD code derivation
ACER	T260XW02	BN07-00233A	AMZ		AUO 26" Panel new (Cosmetic spec down grade)
ACER	T315XW01	BN07-00234A	AMZ		AUO 32" Grade new (Cosmetic spec down grade)
ACER	M190EN03	BN07-00224A	AMZ		AU Monitor 19" MVA new code derivation
ACER	T315XW01	BN07-00237A	AMZ		LCD TV VE project new
ACER	T315XW01	BN07-00238A	AMZ		LCD TV VE project new
ACER	M201UN02 V3	BN07-00168A	AMZ		
CHIMEI	M170E3-LO1	BN07-00050A	CA		TN PANEL
CHIMEI	M150X3-L01	BN07-00051A	CB		COMPATIBLE
CHIMEI	M170E4-L01	BN07-00052A	CC		MVA PANEL
CHIMEI	M150X2-L01	BN07-00066A	CD		CHIME 15"I PVA PANEL
CHIMEI	M150X3-L01	BN07-00079A	CE		Chimei ZPD panel
CHIMEI	M170E3-L01	BN07-00103A	CF		ZPD Panel code
CHIMEI	M170E4-L01	BN07-00104A	CG		ZPD Panel code
CHIMEI	V296W1-L01	BN07-00120A	CH		MVA
CHIMEI	M170E6-L02	BN07-00126A	CJ		HIGHLAND 17" LOW PANEL
CHIMEI	M190E2-L01	BN07-00131A	CK		GH19AS,BS CHIMEI PANEL
CHIMEI	M150X4-L06	BN07-00137A	CL		15" Narrow & Slim panel
CHIMEI	M170E6-L01	BN07-00133A	CM		"2003-03-11 vendor change"
CHIMEI	M170E6-L01	BN07-00133B	CN		ZPD derivation panel
CHIMEI	V201V1-T01	BN07-00135A	CP		CHIMEI 20.1" panel development
CHIMEI	M170E6-L02	BN07-00126B	CQ		"HIGHLAND 17"" LOW PANEL ZPD derivation panel"
CHIMEI	M170E6-L05	BN07-00152A	CR		"CMO 17"" new panel development code"
CHIMEI	M170E6-L05	BN07-00152B	CS		"CMO 17"" ZPD panel code derivation"
CHIMEI	M150X4-L06	BN07-00137B	CT		Chimei 15" Narrow & Slim panel ZPD derivation
CHIMEI	M170E5-L05	BN07-00165A	CTH		CMO 17" new panel development code (GOYA2-PJT)
CHIMEI	M170E5-L05	BN07-00165B	CTZ		CMO 17" ZPD panel(GOYA2-PJT)
CHIMEI	V230W1-L02	BN07-00209A	CMZ		CMO 23" development
CHIMEI	V320B1-L01	BN07-00207A	CMZ		CMO 32" development
CHIMEI	V270W1-L01	BN07-00136A	CMZ		CHI MEI 27" panel development
NEC	SVA150XG04TB	BN07-00225A	BTZ		SVA NEC 15" panel ZPD code

Memo

2 Product Specifications

2-1 Fashion Feature

- MFM Model
- UOC Ⅱ -> UOC Ⅲ
- Fast Response Time : 8ms
- China/ East-South Asia Model
- A low price Model
- High Contrast Ratio (700:1)
- High Picture from use of Comb-Filter
- High Luminance (300cd/m^2)
- Stereo Sound
- NICAM
- Clear edge from use of Media Window Enhancement(MWE)

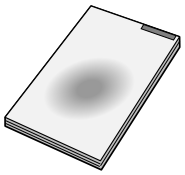
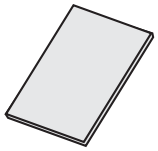
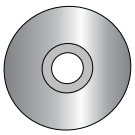
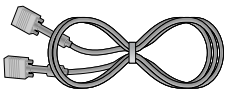
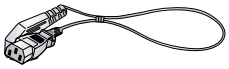
2-2 Specifications Comparison to the Old Model

Model	MH17AS	LMC17AS
Area	Europe	Europe
Panel	EU-L11	EU-L21
Response Time	25 ms	8 ms
Scart Jack	O	O
Micom	NT68F632L	TDA15021H
Scaler	MST9141	TSU396AWJ-LF
PBA		

2-3 Specifications

Item	Description
LCD Panel	TFT-LCD panel, RGB vertical stripe, normaly white, 17-Inch viewable, 0.264 mm pixel pitch
Scanning Frequency	30 kHz ~ 81 kHz (Automatic) 56 Hz ~ 75 Hz (Automatic)
Display Colors	16.2 Million colors
Maximum Resolution	Horizontal:1280 Pixels Vertical : 1024 Pixels
Input Video Signal	Analog, 0.7 Vp-p ± 1% positive at 75 Ω, TTL level positive or negative
Input Sync Signal	Type: Seperate H/V automatic synchronization without external switch of sync type Level: TTL level
Maximum Pixel Clock rate	135 MHz
Active Display Horizontal/Vertical	337.9 mm / 270.3 mm
AC power voltage & Frequency	AC 100 ~ 240 VAC (± 10%), 60/ 50 Hz ± 3 Hz
Power Consumption	43 W (max)
Dimensions Set (W x H x D) Package (W x D x H)	 15.3 x 15.8 x 8.1 Inches (389.0 X 402.5 X 206.0 mm) 15.3 x 15.2 x 2.5 Inches (389.0 X 386.0 X 63.0 mm) 19.0 x 5.8 x 21.3 Inches (482 X 148 X 542 mm)
Weight (Set/Package)	5.35 kg (11.8 lbs) / 6.95 kg (15.3 lbs)
TV / Video	Color system : PAL / SECAM / NTSC4.43
	Sound system : B/G, I, D/K
Antena Input	75Ω , Coaxial Cable
Sound Characteristic	– MAX Internal speaker Out : Right => 1.5 W Left => 1.5 W – BASS Control Range : -12 dB ~ + 12 dB – TREBLE Control Range : -12 dB ~ + 12 dB – Line Out : -7 dBm (Fixed) – Headphone Out : RF => 5 mW (400 m Vrms) A/V => 10 mW (580 Vrms), Max Input sound : -9 dB – Output Frequency : RF => 80 Hz ~ 15 KHz (at -3 dB) A/V => 80 Hz ~ 20 KHz (at -3 dB)
• LMC17AS complies with SWEDAC (MPR II) recommendations for reduced electromagnetic fields. • Designs and specifications are subject to change without prior notice.	

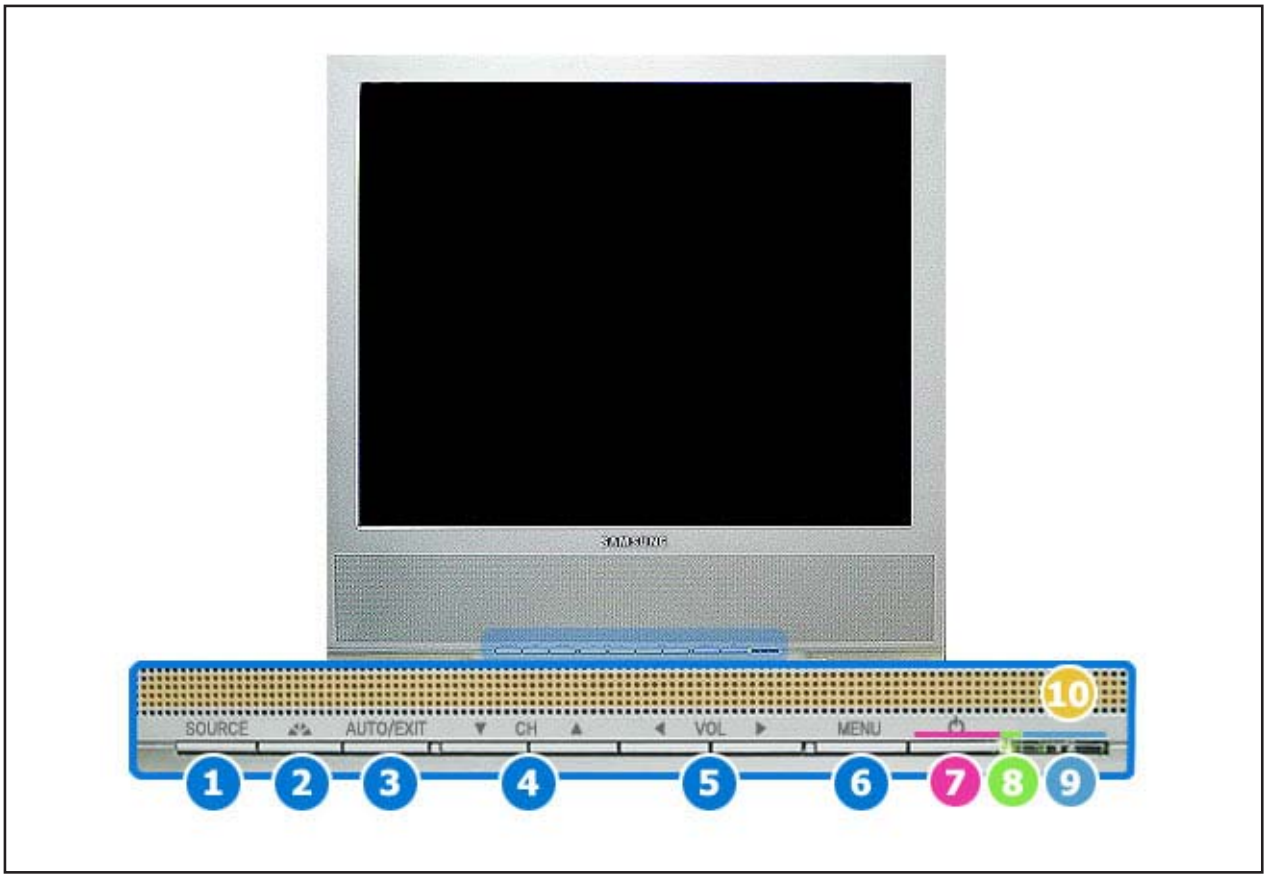
2-4 Option Specification

Item	Item Name	CODE.NO	Remark
	Quick Setup Guide	BH59-00390R	
	Warranty Card (Not available in all locations)	BH75-00146B	
	User's Guide, Monitor Driver	BN59-00390R	
	D-Sub(15 Pin) Cable	BN39-00244A	
	Power Cord	3909-000082	
	Audio Cable	BN39-00061B	
	Batteries (AAA X 2)	4301-000121	
	Remote Control	BN59-00403B	
	Connector		

Memo

10 Operating Instructions and Installation

10-1 Front



1. SOURCE
Switches from PC mode to Video mode.
Changing the source is allowed only in external devices that are connected to the monitor at the time.
To switch Screen modes:
[PC] - [TV] - [Ext.] - [AV] - [S-Video]

2. MagicBright™
MagicBright™ is a new feature providing the optimum viewing environment depending on the contents of the image you are watching.
Then push button again to circle through available preconfigured modes.
(Entertain - Internet - Text - Custom)
- Available in PC Mode only

3. AUTO / EXIT
AUTO : Adjusts the screen display automatically.
- Available in PC Mode only
EXIT : Exits from the menu screen.

4. CH
Moves from one menu item to another vertically or adjusts selected menu values.
In TV mode, selects TV channels.

5. VOL
Moves from one menu item to another horizontally or adjusts selected menu values.
Adjusts the audio volume.

6. MENU
Use this button to open the on-screen menu and step back in the menu.

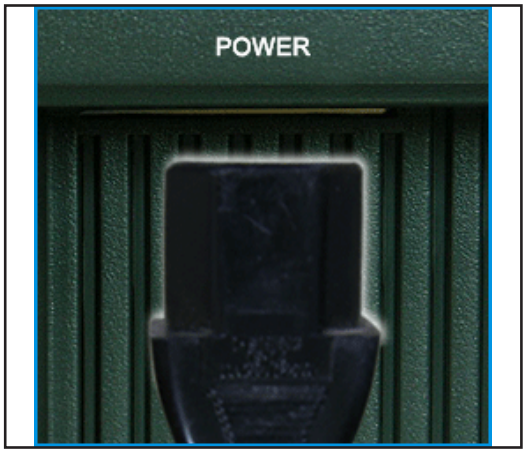
7. Power button
Use this button to turn the monitor on and off.

8. Power indicator
Power Indicator shows PowerSaver mode by green blinking.

9. Remote Control Sensor
Aim the remote control towards this spot on the Monitor.

10. Speaker
You can hear sound by connecting the soundcard of your PC to the monitor.

10-2 Rear

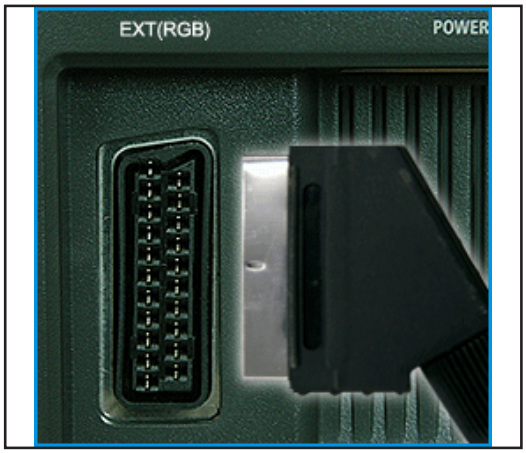


1. POWER-IN

Power cord, plugs into monitor and wall receptacle.
This product may be used with 100 ~ 240VAC (+/- 10%).

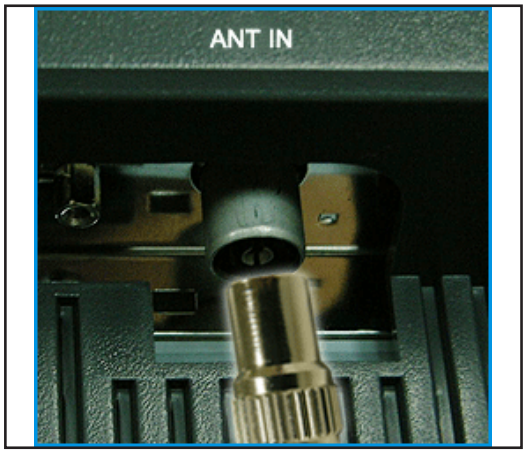
2. PC

Computer Connection Terminal
(15 Pin D-SUB)



3. TV

EXT(RGB) Connection Terminal
- EXT(RGB) is mainly used in Europe.



4. AUDIO(ST)

TV Connection Terminal

5. PC AUDIO IN

Audio Connection Terminal

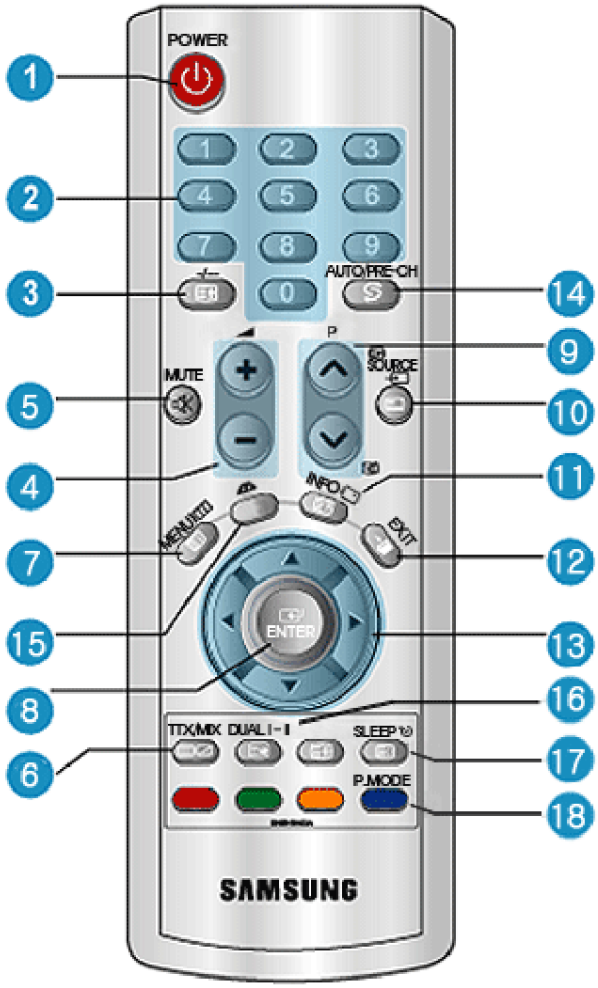
6. AV Connection Terminal

1. Headphone Connection Terminal(Output)
2. Right(R) / Left(L) audio Connection Terminal (Input)
3. Video Connection Terminal (Input)
4. S-Video Connection Terminal (Input)

7. Kensington Lock

The Kensington lock is a device used to physically fix the system when using it in a public place.
(The locking device has to be purchased separately.)

10-3 Remote Control



1. POWER
2. number
3. -/--
4. (Volume)
5. MUTE
6. TTX/MIX
7. MENU
8. ENTER
9. P
10. SOURCE
11. INFO
12. EXIT
13. Up-Down Left-Right Buttons
14. AUTO / PRE-CH
15. M/B (MagicBright™)
16. DUAL I - II
17. SLEEP
18. P.MODE

1. POWER
Use this button to turn the monitor on and off.

2. Number buttons
Selects TV channels in the TV mode.

3. -/-- (One/Two-Digit CHANNEL selection)
Use to select a CHANNEL numbered ten or over.
Press this button, and the "--" symbol is displayed.
Enter the two-digit CHANNEL number.

4. (Volume)
Adjusts the audio volume.

5. MUTE
Pauses (mutes) the audio output temporarily.
Displays on the lower left corner of the screen.
The audio resumes if Mute or (Volume) is pressed in the Mute mode.

6. TTX/MIX
TV channels provide written information services via teletext.

7. MENU
Use this button to open the on-screen menu and step back in the menu.

8. ENTER
Activates a highlighted menu item.

9. P
In TV mode, selects TV channels.

10. SOURCE
Switches from PC mode to Video mode.
Changing the source is allowed only in external devices that are connected to the monitor at the time.
[PC] - [TV] - [Ext.] - [AV] - [S-Video]

11. INFO
Current picture information is displayed on the upper left corner of the screen.

12. EXIT
Exits from the menu screen.

13. Up-Down Left-Right Buttons
Moves from one menu item to another horizontally, vertically or adjusts selected menu values.

14. AUTO / PRE-CH
PC mode : Adjusts the screen display automatically.
TV mode : This button is used to return to the previous channel immediately.

15. M/B (MagicBright™) PC Mode :
MagicBright¢â is a new feature providing the optimum viewing environment depending on the contents of the image you are watching.
Then push button again to circle through available preconfigured modes.
(Entertain - Internet - Text - Custom)

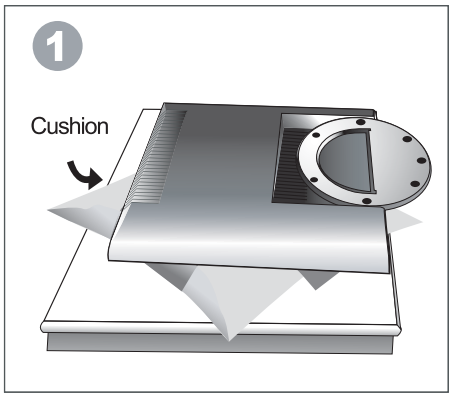
16. DUAL I - II
STEREO / MONO can be operated depending on broadcasting type by using DUAL button on the remote control while watching TV.

17. SLEEP
Use to set the Monitor to turn off automatically a set number of minutes.

18. P.MODE
When you press this button, current mode is displays on the lower center of the screen.

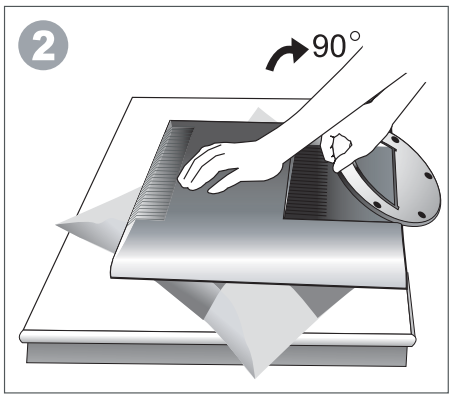
TV / Ext. / AV / S-Video Mode :
The Monitor has four automatic picture settings that are preset at the factory.
Then push button again to circle through available preconfigured modes.
(Dynamic - Standard - Movie - Custom)

10-4 How to Use the Stand

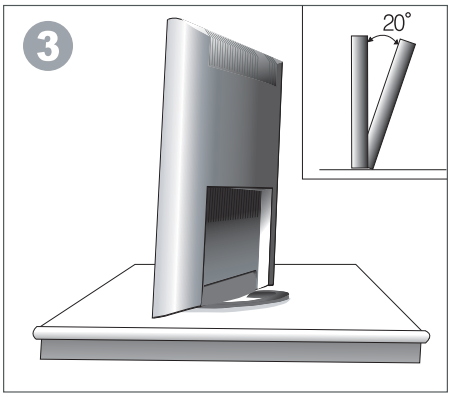


1. Place the front of the monitor onto a soft cloth or cushion on a table as Figure 1

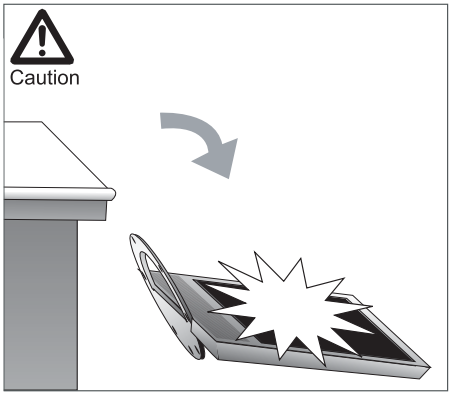
- Align the monitor bottom along the table edge.



2. While pressing on the center of the monitor back, pull the base out at a 90 degree angle.(Figure 2)



3. Place the monitor base on the table so that the monitor sits safely.



Caution

You can tilt the monitor up to 20 degree for the most comfortable viewing angle.

Excessive tilt (by more than 20 degrees) may cause the monitor to fall backward.

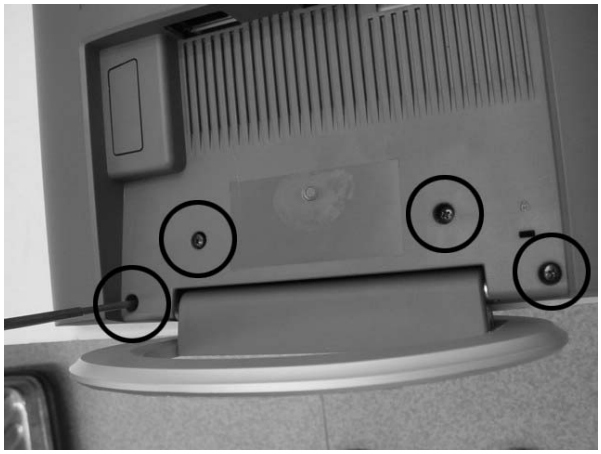
11 Disassembly and Reassembly

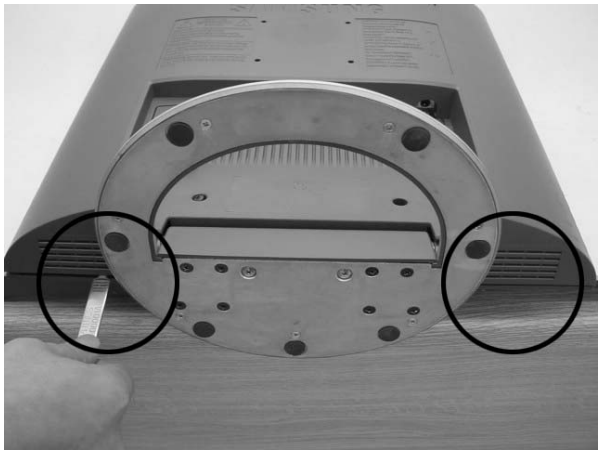
This section of the service manual describes the disassembly and reassembly procedures for the LMC17AS TFT-LCD monitors.

⚠ **WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.**

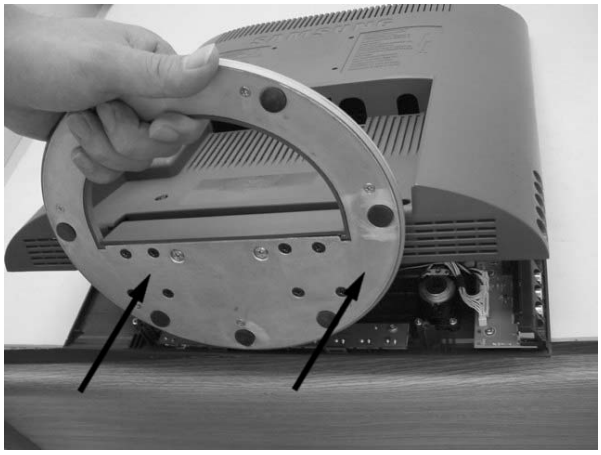
11-1 Disassembly

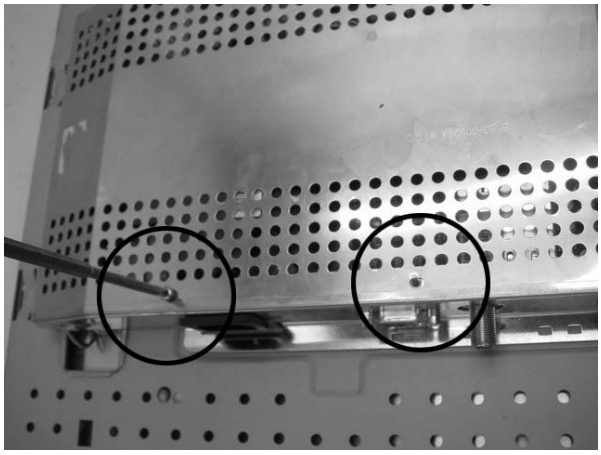
⚠ **Cautions:**
1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
3. R/Cover opening jig : BH81-00001A



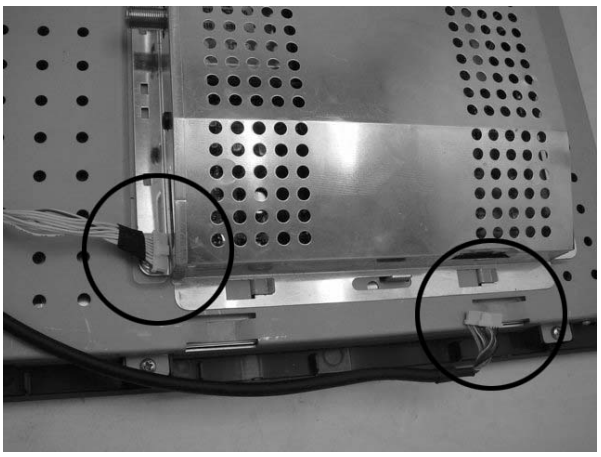


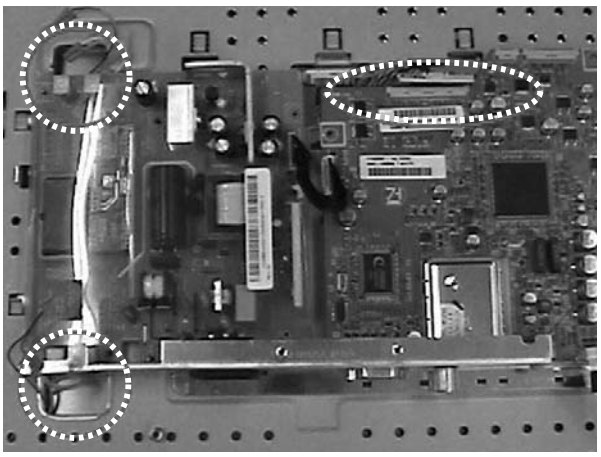
1. Place monitor face down on cushioned table. Remove 4 screws from grip on the stand and insert the opening drive into the grooves at each side and press until it clicks.



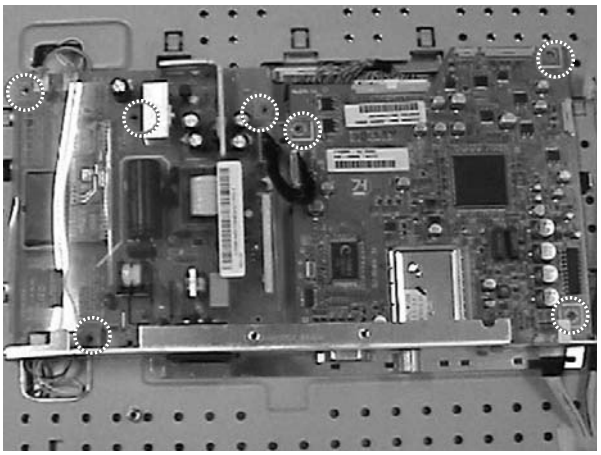


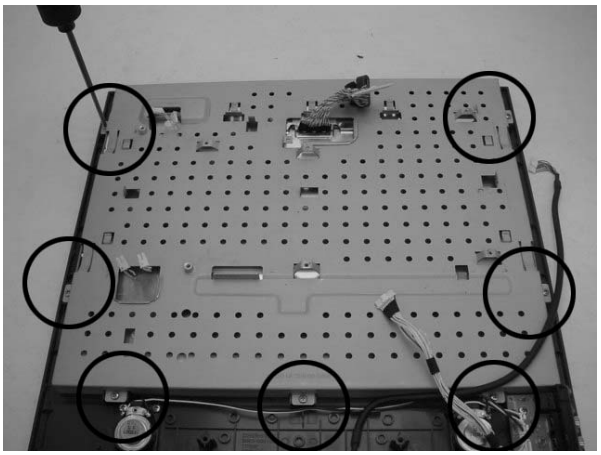
2. Remove back cover from the monitor and remove 2 screws from the main board.



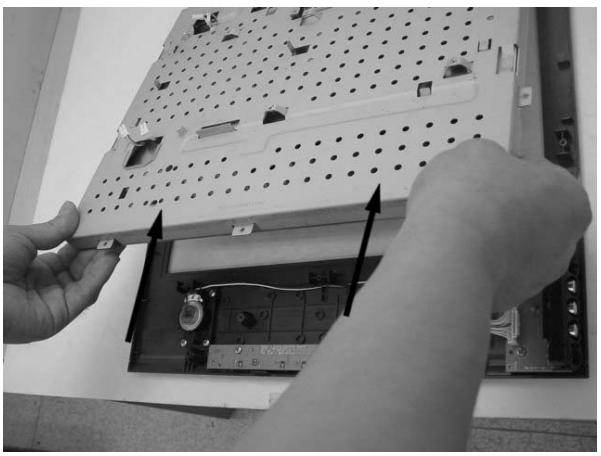


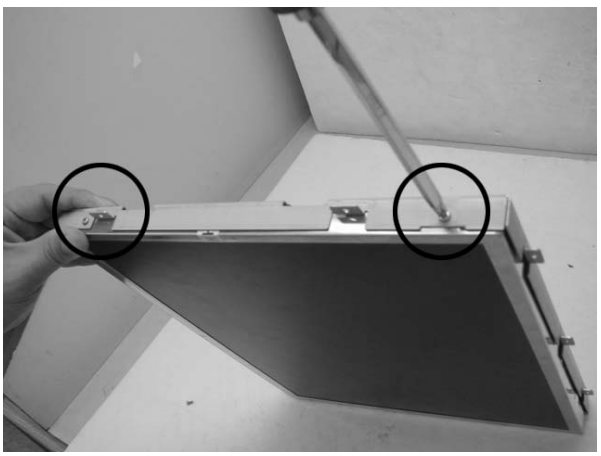
3. Disconnect speaker cable and function cable from the shield PCB and remove shield PCB. Disconnect inverter cables, LVDS cable from the MAIN board.





4. Remove 7 screws from the MAIN board and remove 7 screws from the cover front.

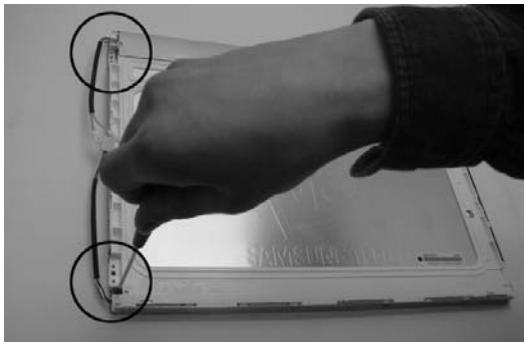




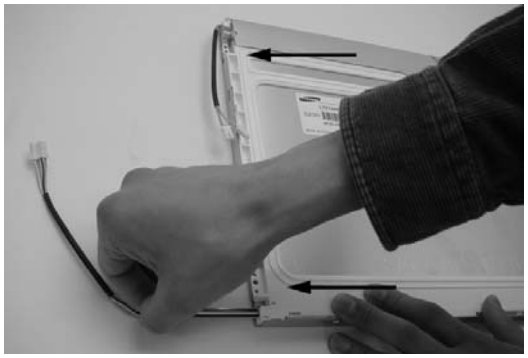
5. Remove the cover front and remove 4 screws from the panel.

11-2 Replacement Order of Lamp Assemblies

1. After confirm there is nothing on the desk, turn the LCD module over and put it on a flat desk set to the ground.



2. Remove 2 screws for the lamp unit.



3. Slide the lamp unit. Please take out the lamp units from the LCD module.

4. Please fix the new lamp units on the LCD module : opposite process 2 and 3.

11-3 Reassembly

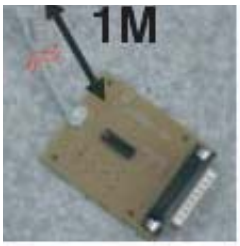
-Reassembly procedures are in the reverse order of disassembly procedures.

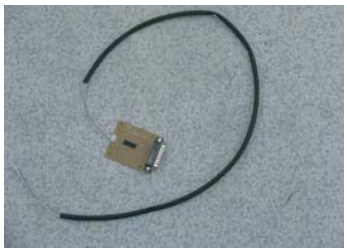
3 Alignments and Adjustments

This section describes to adjust LCD monitor after replacing EEPROM, Main PBA or Panel.

3-1 Program Upgrade

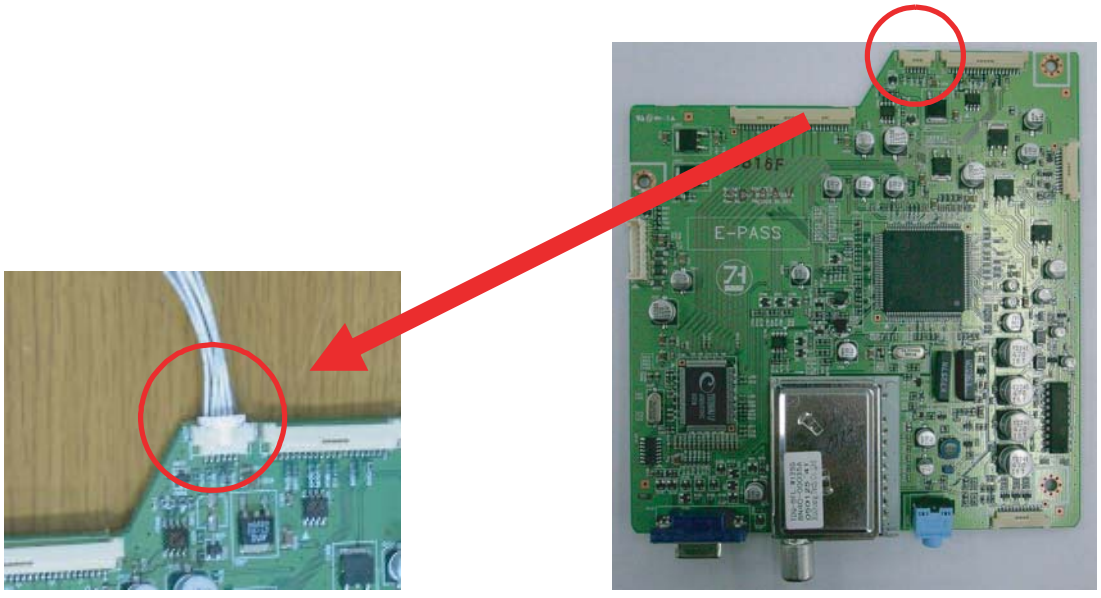
1. USE Program Upgrade JIG





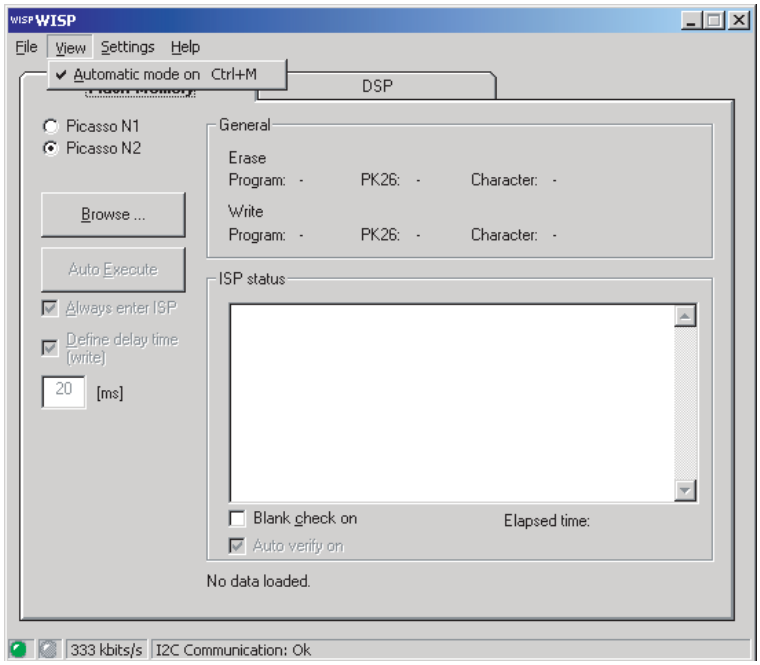
2. Connection parallel port and PC

3. Connection the other part CN701 of PCB ASS'Y (※Open Back Cover and Shield)

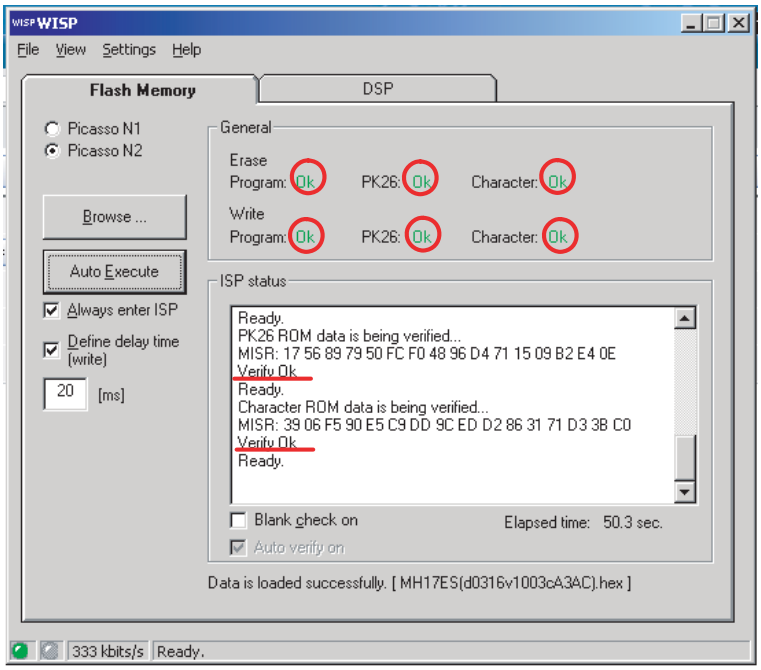


4. Execute "WISP" program

5. Click "View" and Check "V" Automatic mode on



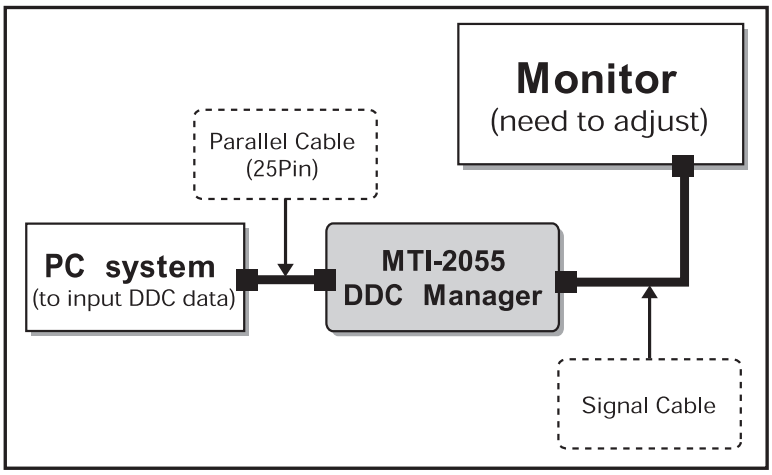
6. Browse → Select Upgrade code
   And Click Auto Execute



(※Check Erase and Write "OK", Verify "OK")

7. Check PC color adjustment. (Factory Mode)
8. DDC input. (Next Page)
9. Factory Mode → Execute "Reset" and turn off Hard Power

3-2 DDC JIG installation



Connect DDC JIG.

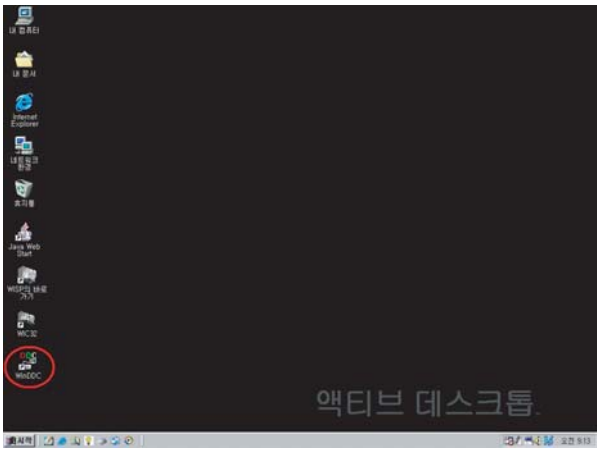
PC parallel port ----- DDC JIG ----- Monitor

JIG cable

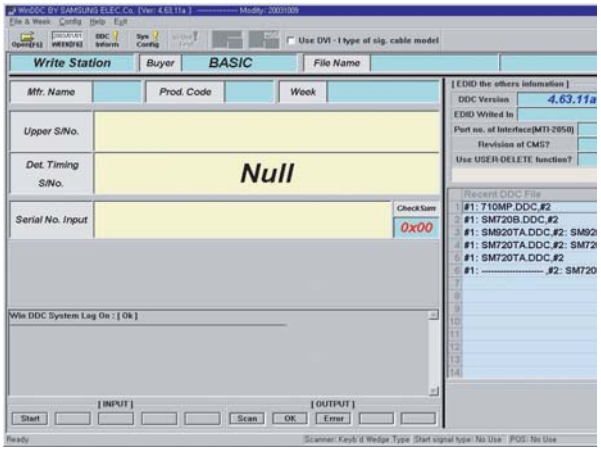
D_sub cable

3-3 How to execute DDC

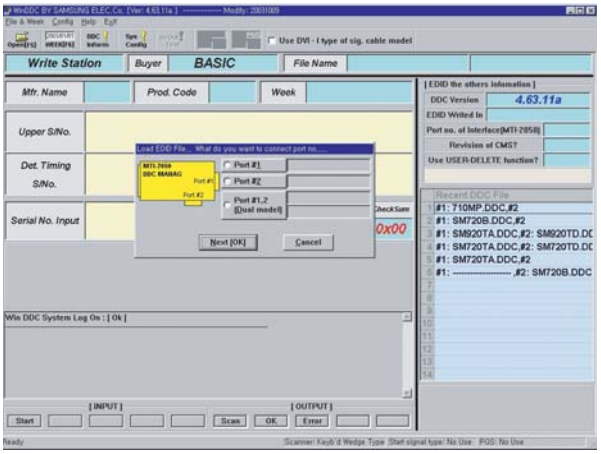
1. Monitor → Factory Mode



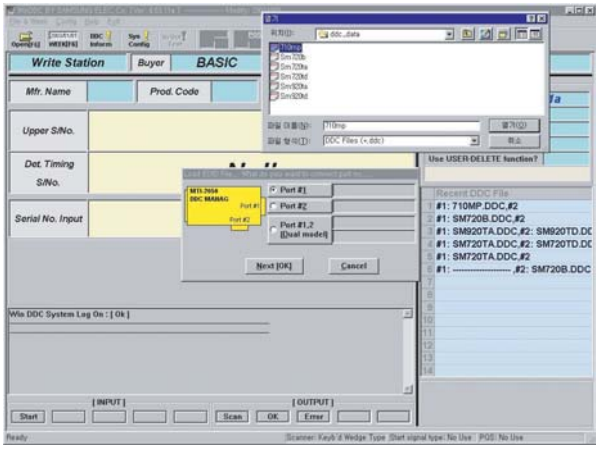
2. Execute "WinDDC.EXE"



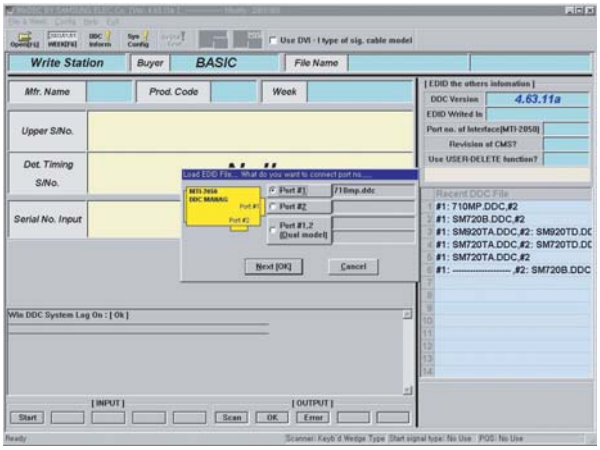
3. Click "Open[F5]"



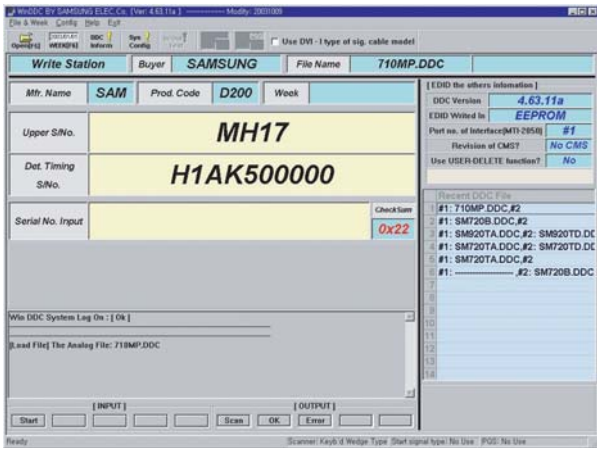
4. Select Connected Port#1 and Click Next OK
   Find file name : 711mp.ddc



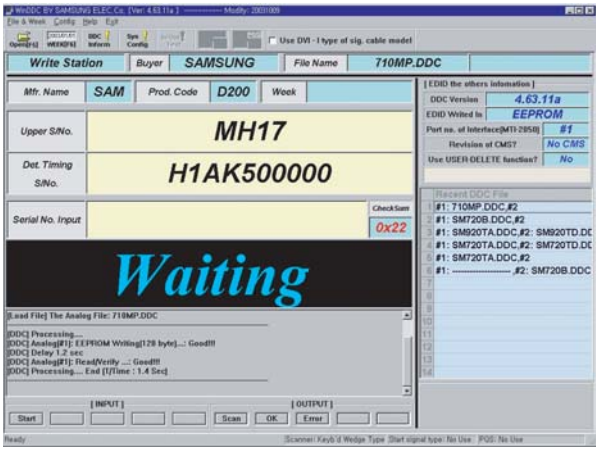
5. Select Connected Port#1 and Click Next OK
   Find file name : 711mp.ddc

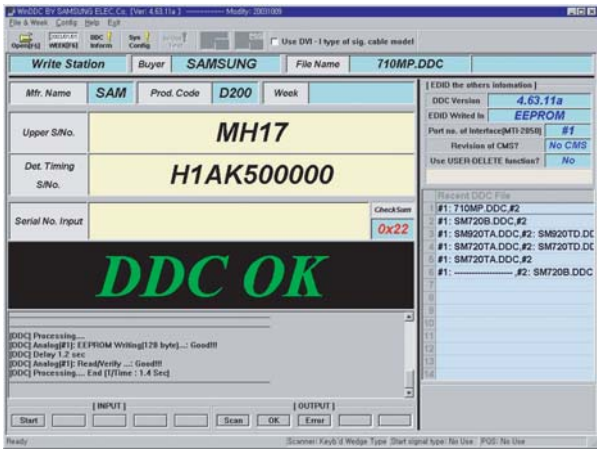


6. Check the Model Name : MH17



7. Press Enter key on keyboard.





8. Confirm the DDC OK

3-4 Factory Mode Adjustments

3-4-1 Factory Mode Admission

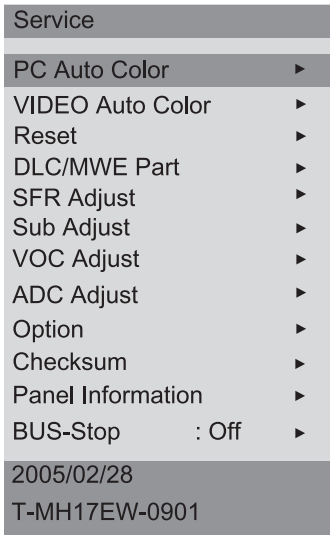
Power off → Info → Menu → Mute → Power on

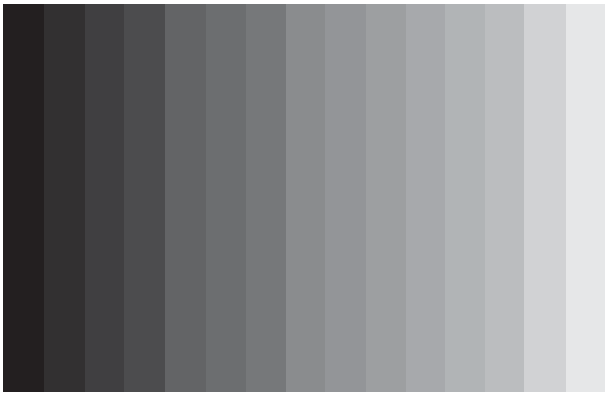
-If Factory remocon is available

info → Factory

3-4-2 Adjustment(Applicabile Only to Micom Program Adjustments)

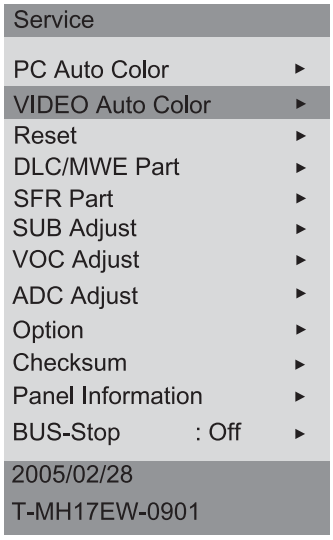
- PC Auto Color

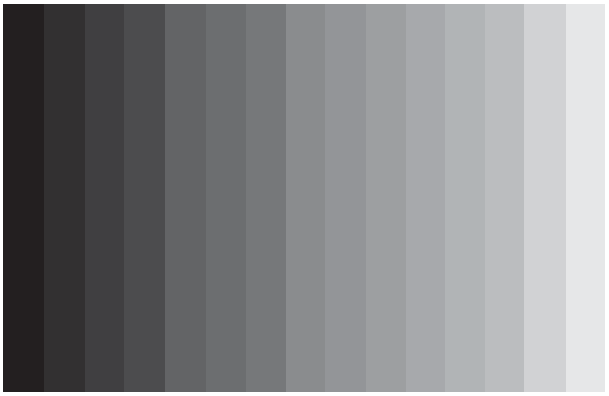




PC Auto Color
- PC analog : 1024 X 768/60Hz, 16 Gray Pattern
- Equipment Used : MSPG-3240L, MSPG-925LTH, MSPG-925SM

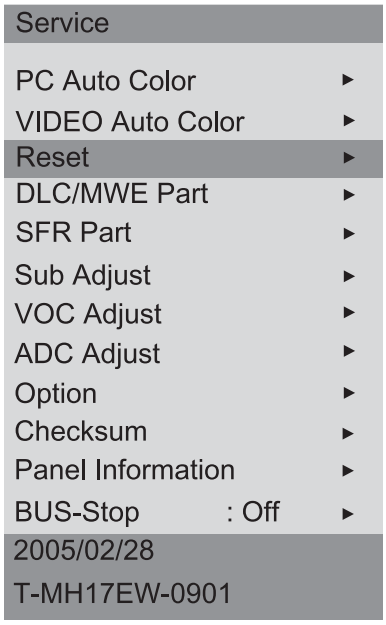
- VIDEO Auto Color





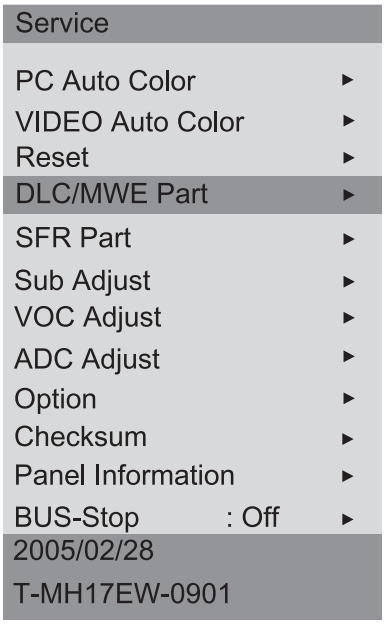
VIDEO Auto Color (connect AV jack of CVBS)
- PAL : 525i, 16Gray pattern
- Equipment Used : MSPG-925LTH, MSPG-925SM

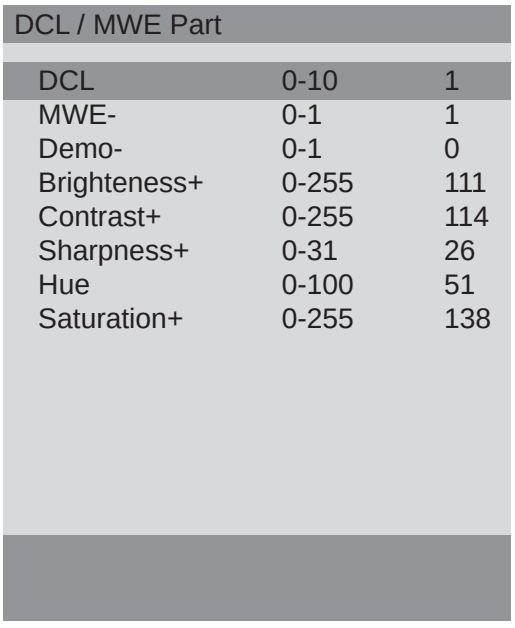
- Reset



Reset
- Factory Reset : After performing a reset, the main power is turned off.

- DLC/MWE part

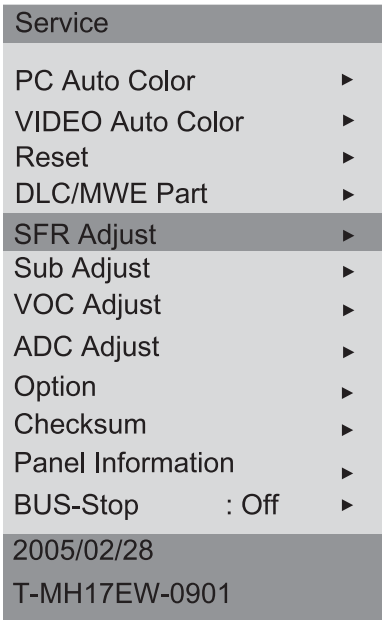




-Dynamic luma control Part

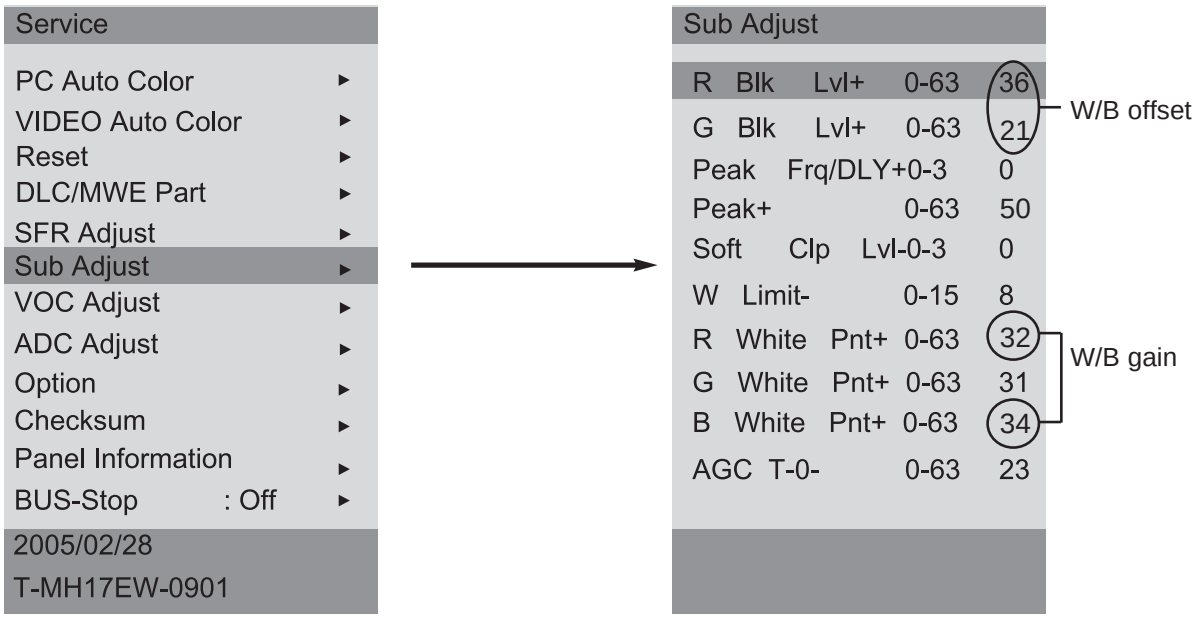
"-" : RF,AV,S_Video all store
"+" : RF,AV,S_Vodeo apart store

- SFR Par



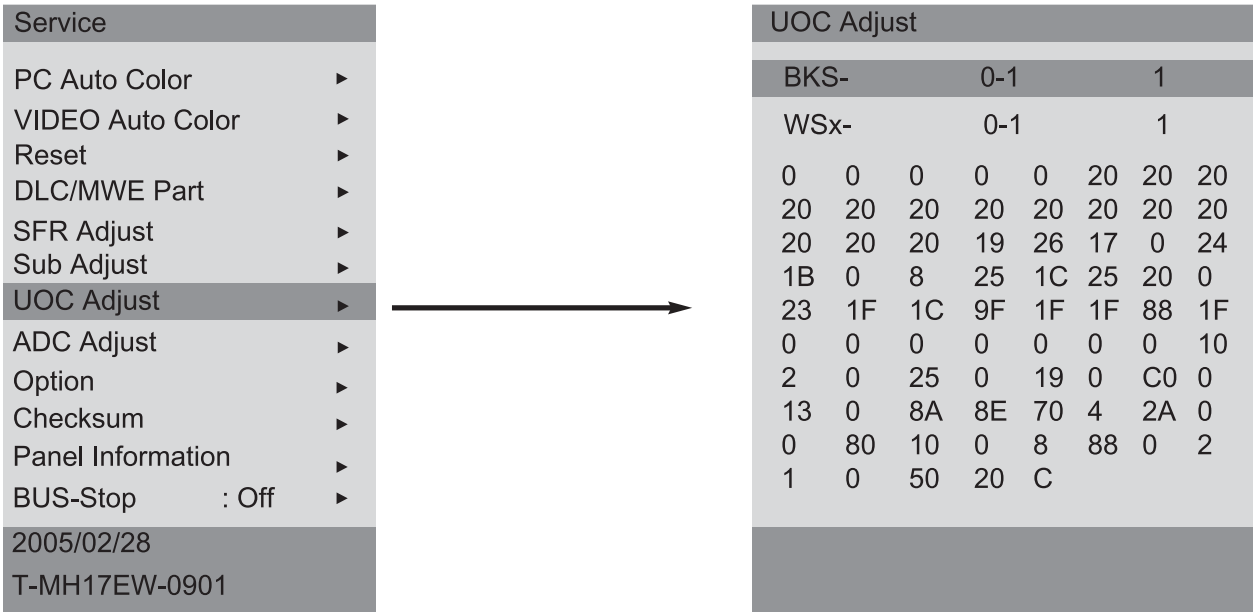
-Special Function Register

- Sub Adjust



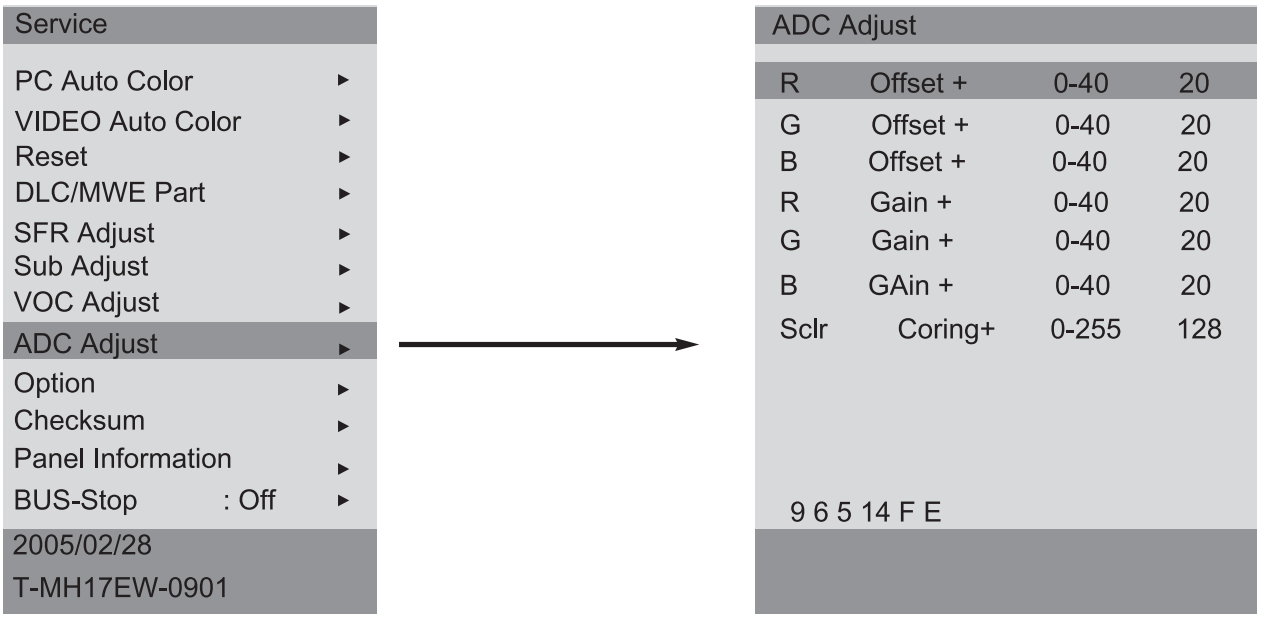
(TBD)

- UOC Adjust


Service
PC Auto Color
VIDEO Auto Color
Reset
DLC/MWE Part
SFR Adjust
Sub Adjust
UOC Adjust
ADC Adjust
Option
Checksum
Panel Information
BUS-Stop : Off
2005/02/28
T-MH17EW-0901
UOC Adjust
BKS- 0-1 1
WSx- 0-1 1
0 0 0 0 0 20 20 20
20 20 20 20 20 20 20 20
20 20 20 19 26 17 0 24
1B 0 8 25 1C 25 20 0
23 1F 1C 9F 1F 1F 88 1F
0 0 0 0 0 0 0 10
2 0 25 0 19 0 C0 0
13 0 8A 8E 70 4 2A 0
0 80 10 0 8 88 0 2
1 0 50 20 C

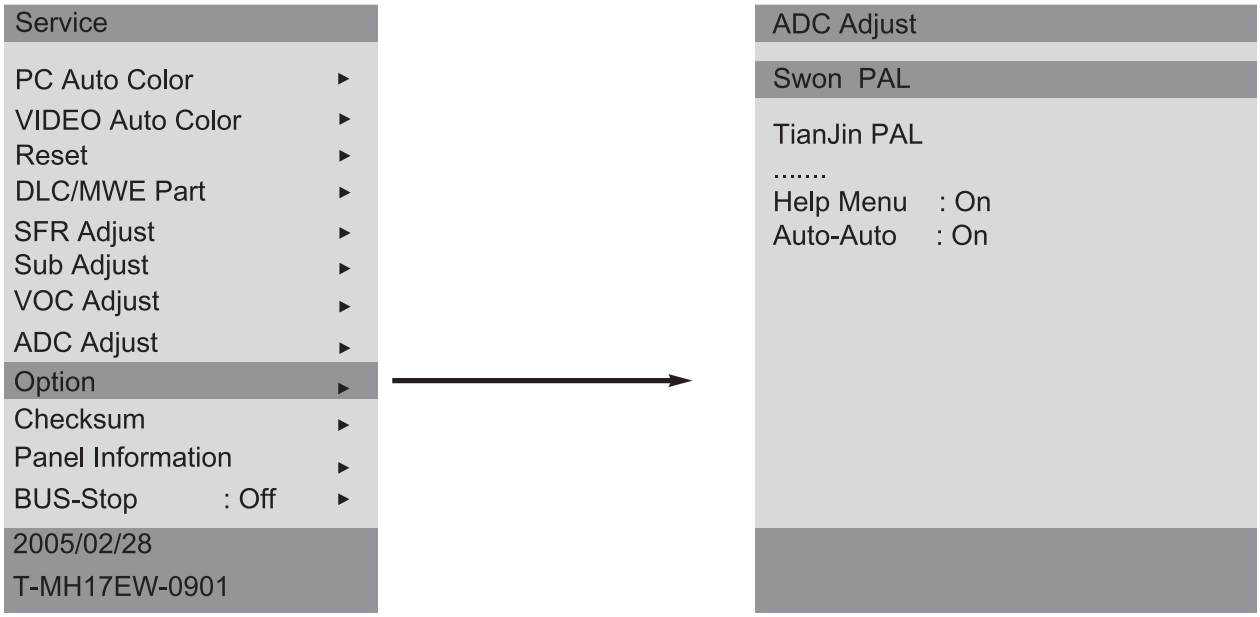
-UOC Adjust (BKS: black stretch, Wsx: white stretch)

- ADC Adjust

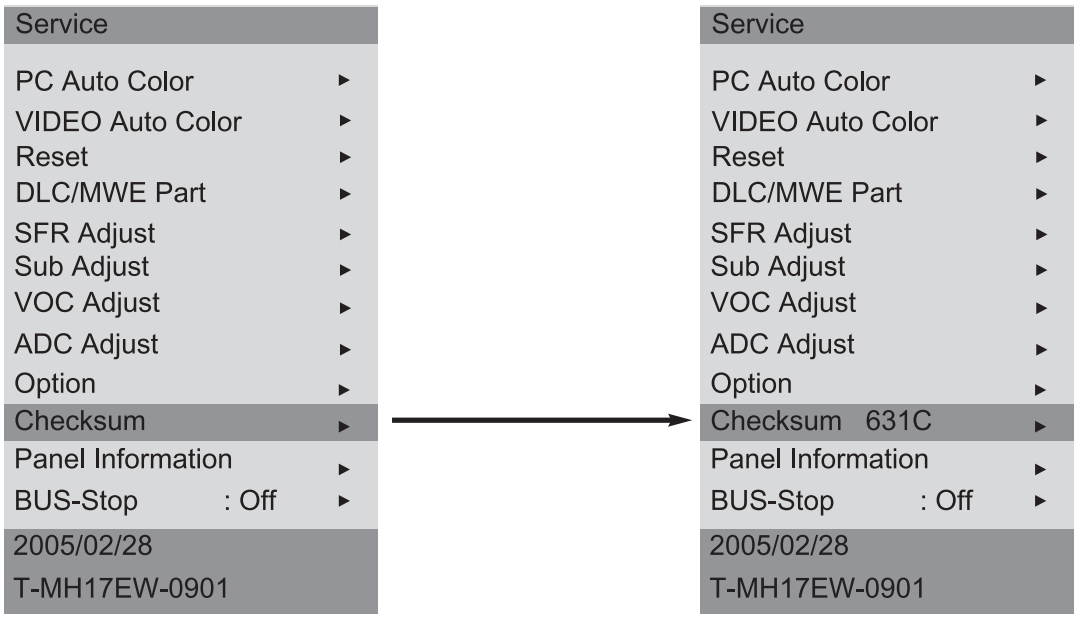


- color fine adjustment

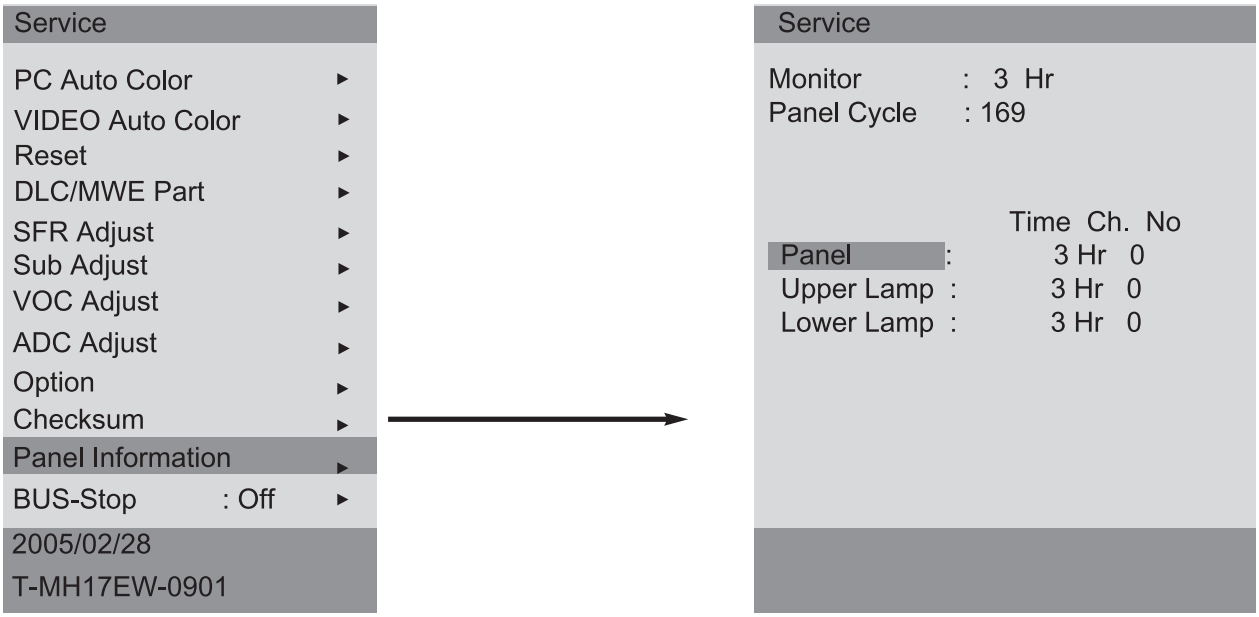
- Option



- Checksum

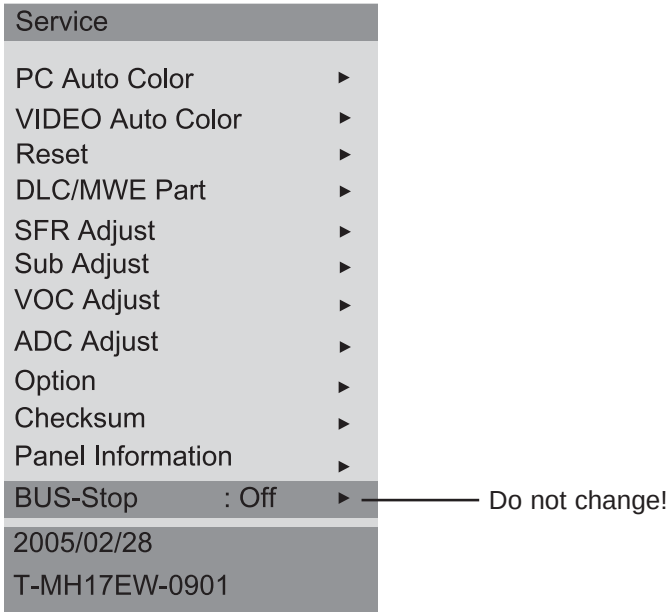


- Panel Information



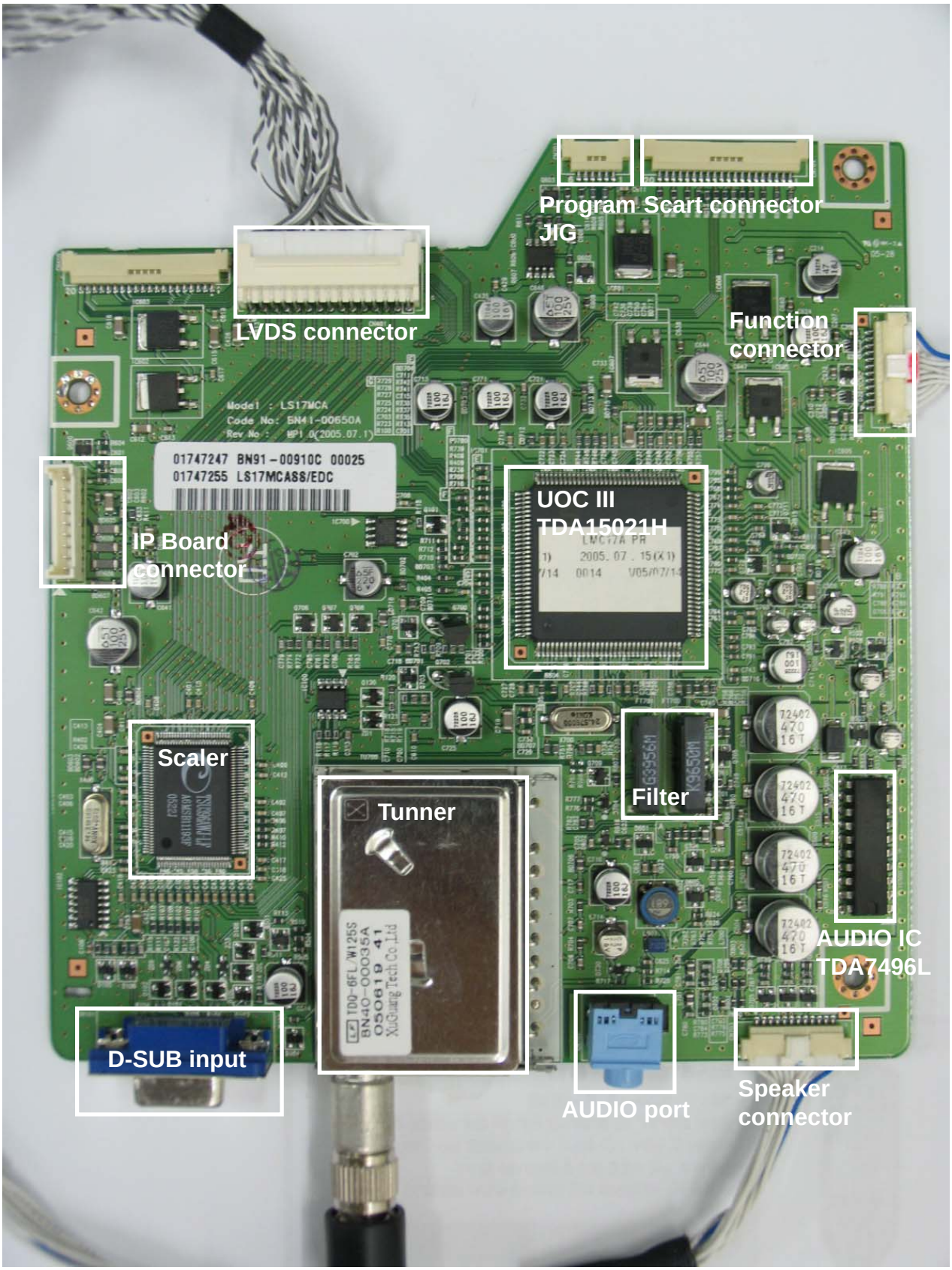
Time reset (Press Monitor Menu button for 5 seconds)

- Bus-Stop



13 Circuit Descriptions

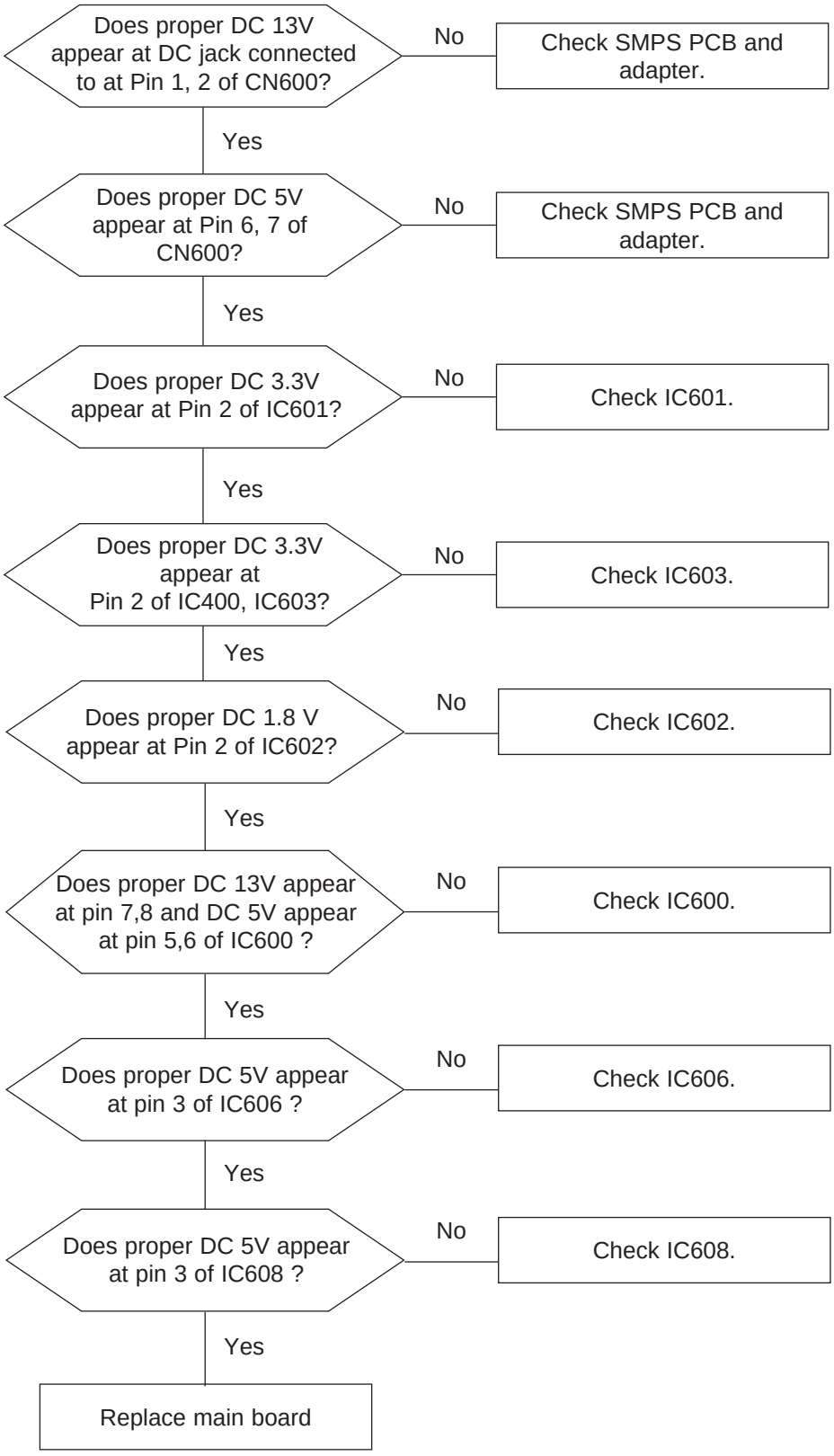
13-1 Block description



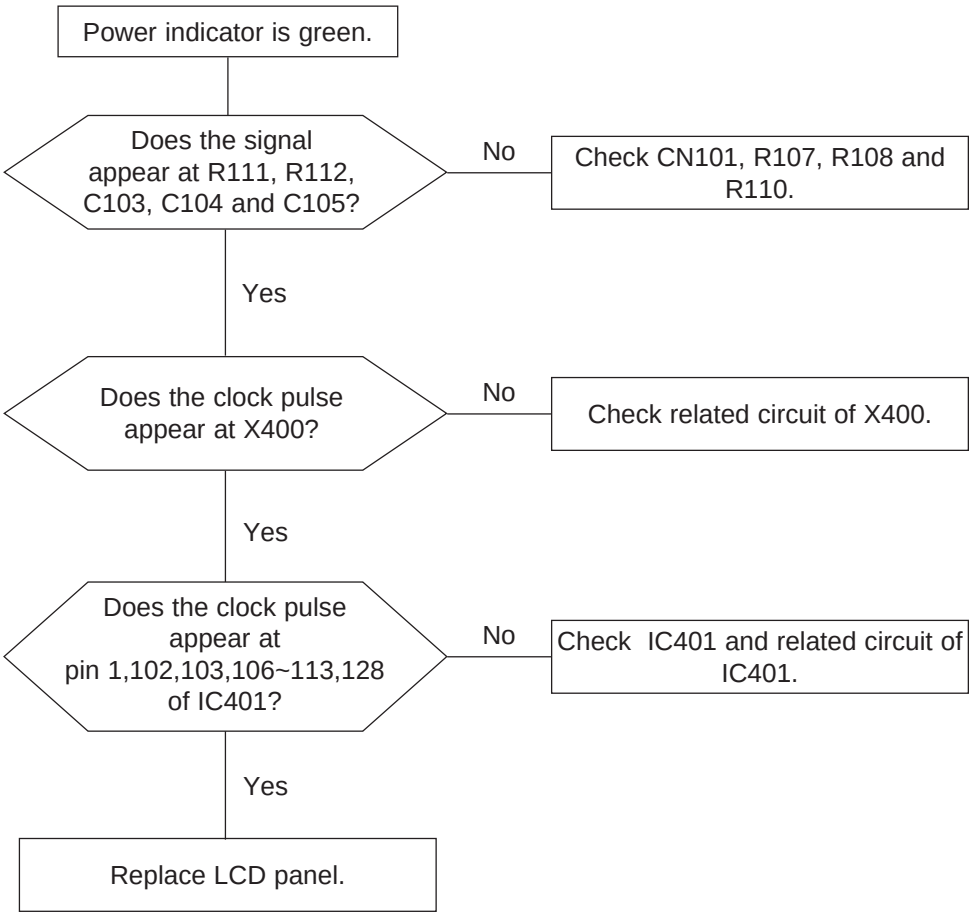
No	Block	Description	Name
1	UOC III	Versatile signal processor (VSP)	TDA15021H
2	Scaler	SXGA LCD Controller with Analog Interface and Dual TTL/LVDS Transmitter	TSU396AWJ-LF
3	Tuner	Antenna RF in	TDQ-6FL
4	D_sub Input	D_sub input connector	
5	Function connector	Function key connector	
6	Speaker connector	Left, Right Speaker Ass'y connector	
7	Audio port	JACK-Ear Phone	
8	Filter	Video SAW Filter	G3956M
		Sound SAW Filter	K9650M
9	Audio IC	Volume Control	TDA7496L
10	IP Board connector	Power in	
11	LVDS Connector	LVDS Harness Input connector	
12	Program Jig	Micom program down Jig Input	
13	Scart Connector	Scart Input Connector	

4 Troubleshooting

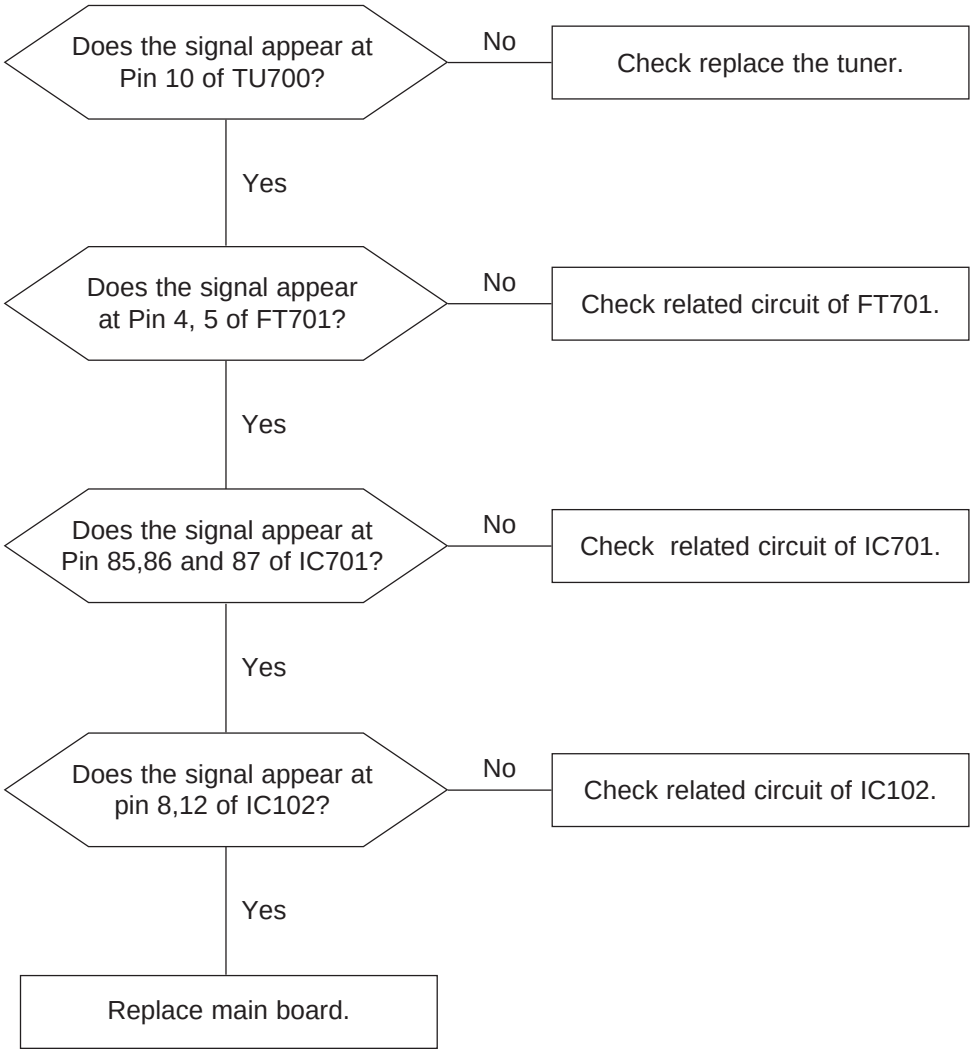
4-1 No Power


Does proper DC 13V appear at DC jack connected to at Pin 1, 2 of CN600?
No
Check SMPS PCB and adapter.
Yes
Does proper DC 5V appear at Pin 6, 7 of CN600?
No
Check SMPS PCB and adapter.
Yes
Does proper DC 3.3V appear at Pin 2 of IC601?
No
Check IC601.
Yes
Does proper DC 3.3V appear at Pin 2 of IC400, IC603?
No
Check IC603.
Yes
Does proper DC 1.8 V appear at Pin 2 of IC602?
No
Check IC602.
Yes
Does proper DC 13V appear at pin 7,8 and DC 5V appear at pin 5,6 of IC600 ?
No
Check IC600.
Yes
Does proper DC 5V appear at pin 3 of IC606 ?
No
Check IC606.
Yes
Does proper DC 5V appear at pin 3 of IC608 ?
No
Check IC608.
Yes
Replace main board

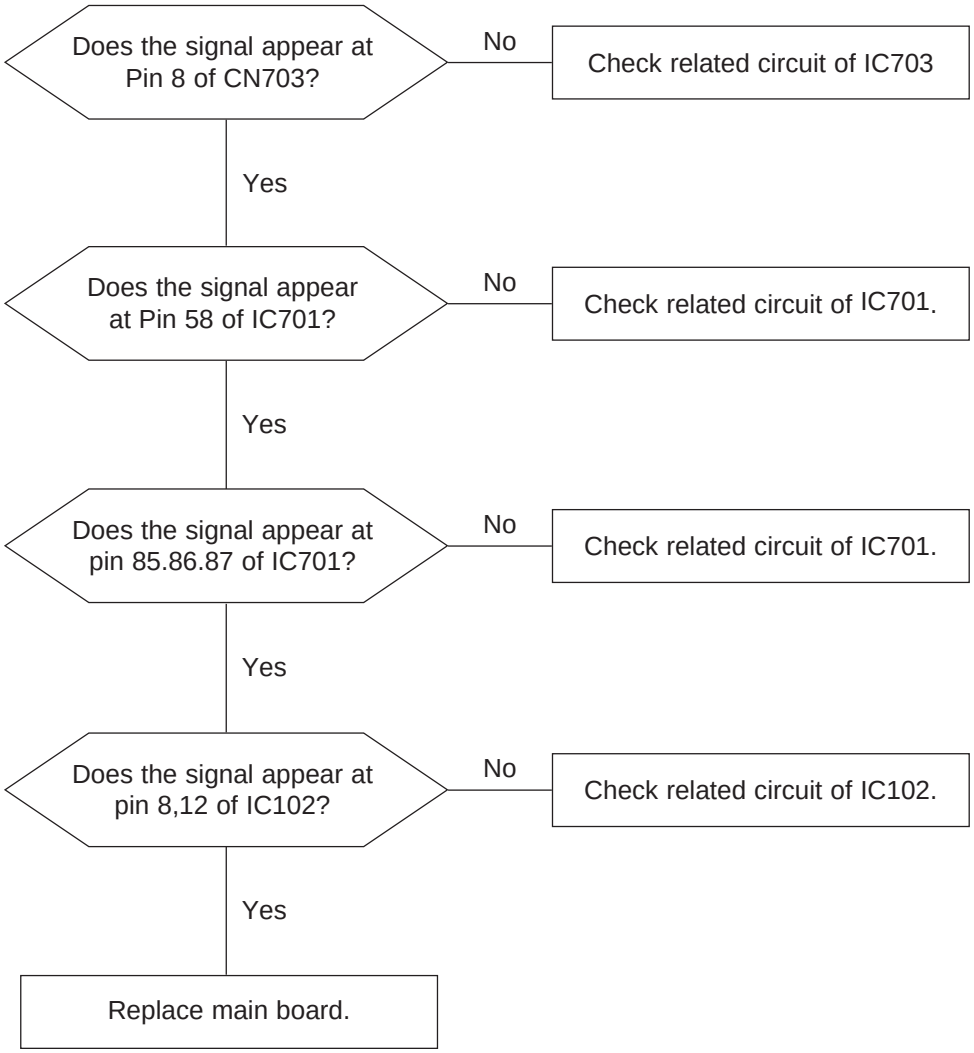
4-2 No Video (PC Signal)


Power indicator is green.
Does the signal appear at R111, R112, C103, C104 and C105?
No
Check CN101, R107, R108 and R110.
Yes
Does the clock pulse appear at X400?
No
Check related circuit of X400.
Yes
Does the clock pulse appear at pin 1,102,103,106~113,128 of IC401?
No
Check IC401 and related circuit of IC401.
Yes
Replace LCD panel.

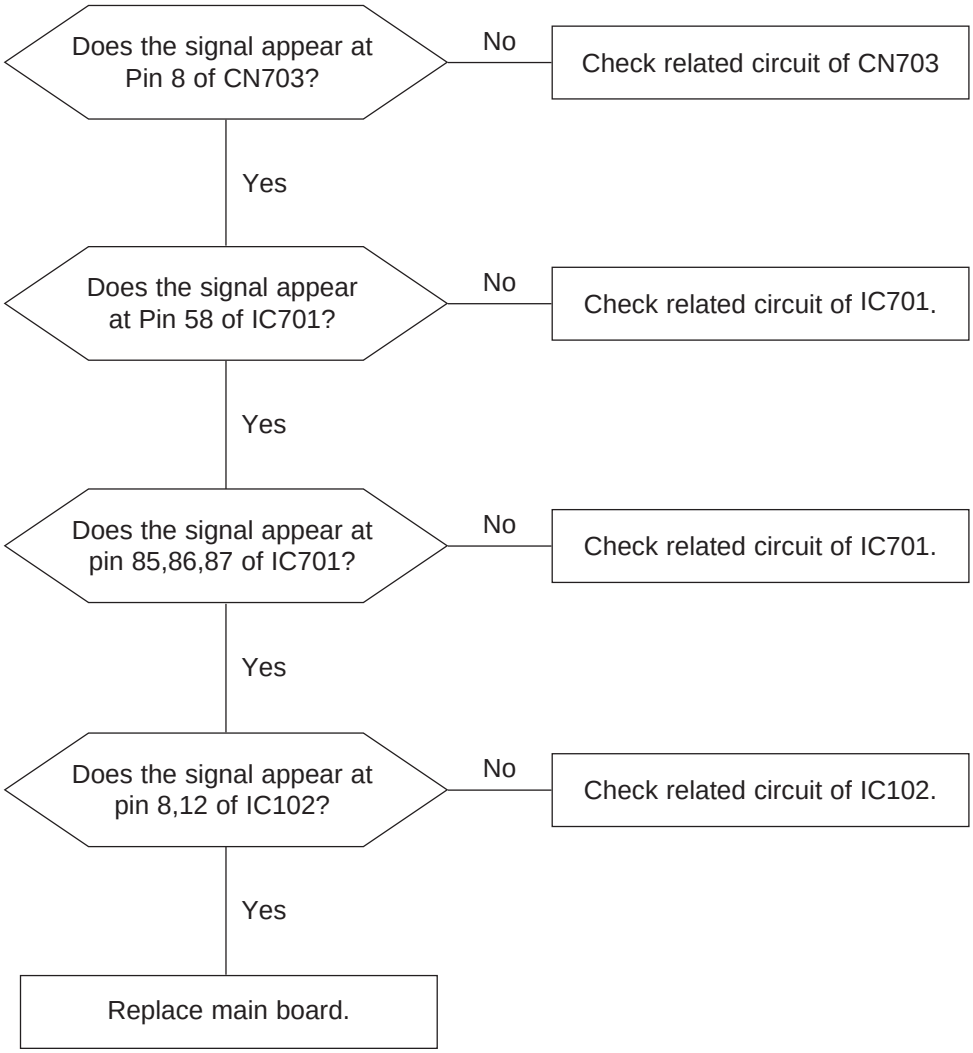
4-3 No Picture (TV)


Does the signal appear at Pin 10 of TU700?
No
Check replace the tuner.
Yes
Does the signal appear at Pin 4, 5 of FT701?
No
Check related circuit of FT701.
Yes
Does the signal appear at Pin 85,86 and 87 of IC701?
No
Check related circuit of IC701.
Yes
Does the signal appear at pin 8,12 of IC102?
No
Check related circuit of IC102.
Yes
Replace main board.

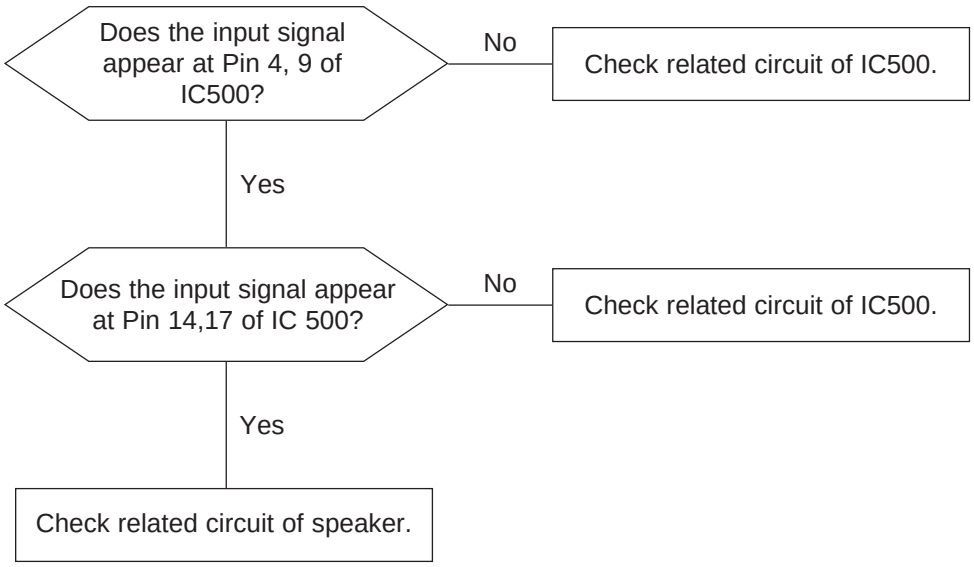
4-4 No Picture (Video)



4-5 No Picture (S_VIDEO)



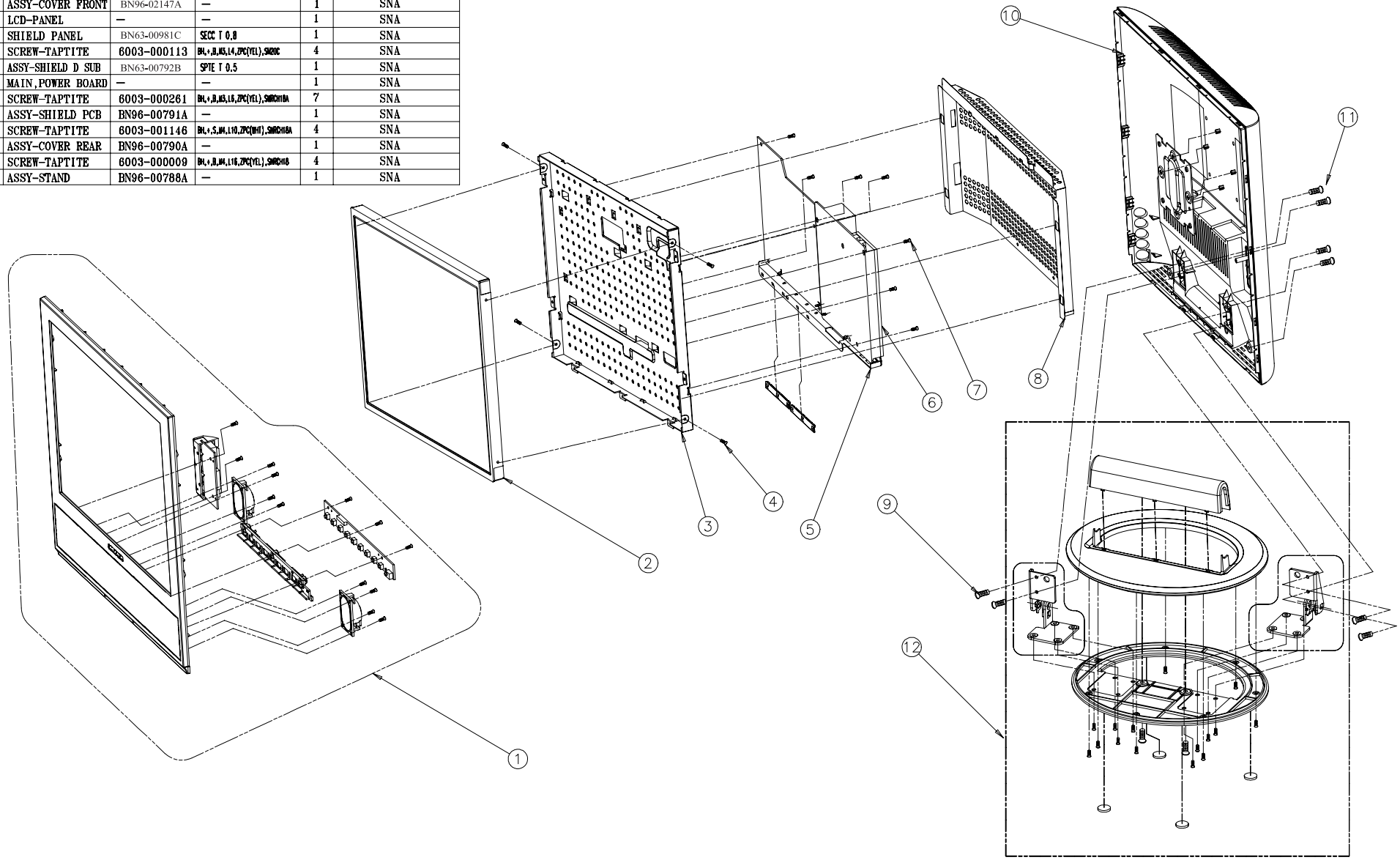
4-6 No Sound


Does the input signal appear at Pin 4, 9 of IC500?
No
Check related circuit of IC500.
Yes
Does the input signal appear at Pin 14,17 of IC 500?
No
Check related circuit of IC500.
Yes
Check related circuit of speaker.

5 Exploded View and Parts List

-You can search for updated part codes through ITSELF web site.
URL : http://itself. sec. samsung.co.kr

NO	PART NAME	CODE NO.	SPEC.	Q'TY	REMARK
1	ASSY-COVER FRONT	BN96-02147A	-	1	SNA
2	LCD-PANEL	-	-	1	SNA
3	SHIELD PANEL	BN63-00981C	SECC T 0.8	1	SNA
4	SCREW-TAPTITE	6003-000113	BH,+,B,M3,L4,ZPC(YEL),SWOC	4	SNA
5	ASSY-SHIELD D SUB	BN63-00792B	SPTE T 0.5	1	SNA
6	MAIN,POWER BOARD	-	-	1	SNA
7	SCREW-TAPTITE	6003-000261	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	7	SNA
8	ASSY-SHIELD PCB	BN96-00791A	-	1	SNA
9	SCREW-TAPTITE	6003-001146	BH,+,S,M4,L10,ZPC(BNT),SWRCH18A	4	SNA
10	ASSY-COVER REAR	BN96-00790A	-	1	SNA
11	SCREW-TAPTITE	6003-000009	BH,+,B,M4,L16,ZPC(YEL),SWRCH18	4	SNA
12	ASSY-STAND	BN96-00788A	-	1	SNA



Memo

7 Electrical Parts List

-You can search for updated part codes through ITSELF web site.
URL : http://itself.sec.samsung.co.kr/

7-1 LS17MJCKBZ/XSF Parts list

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LS17MJCKBZ/XSF	711N,SGL4/S17AK-LMJ,17,LCD-MO,CHINA		
0.1	M0216	BN90-00486D	ASSY STAND;MJ17BS/GS17VT/GS17MS,EDC	1	S.N.A
..2	M0216	BN96-01063A	ASSY STAND P-SIMPLE;MJ15/17ASBS,ABS HB,B	1	S.A
...3	M0081	6003-000269	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL),SW	2	S.N.A
...3	M0081	6003-001086	SCREW-TAPTITE;BH,+,B,M3,L12,ZPC(BLK),SWR	4	S.N.A
...3	STD	BN61-00822A	STAND-BRKT HINGE;GS17VS,SECC,T1.2	1	S.N.A
...3	T0063	BN61-00825A	STAND-FRONT;GS17VS,ABS HB,BK07	1	S.N.A
...3	T0081	BN61-00826A	STAND-REAR;GS17VS,ABS HB,BK07	1	S.N.A
...3	M0122	BN96-01061A	ASSY MISC P-HINGE;MJ15-17AS/BS,ZNDC2	1	S.N.A
0.1	M0002	BN90-00641C	ASSY COVER REAR;MJ17AS	1	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	S.A
..2	M0013	BN96-01054B	ASSY COVER P-REAR;MJ17AS,ABS HB,BK07	1	S.A
...3	M0113	BN61-00377A	BRACKET-VESA;GOYA19"(193V),SECC,T1.0	1	S.A
...3	M0006	BN63-01209B	COVER-REAR;MJ17AS,ABS HB,BK07,NONE 1.5	1	S.N.A
0.1	M0001	BN90-00642V	ASSY COVER FRONT;MJ17ASAB,ADC,BK07,S/M71	1	S.N.A
..2	M0081	6003-001086	SCREW-TAPTITE;BH,+,B,M3,L12,ZPC(BLK),SWR	2	S.N.A
..2	T0003	BN96-01056G	ASSY COVER P-FRONT;MJ17AS (S/M 711N),ABS	1	S.A
...3	M0112	BN63-01208B	COVER-FRONT;MJ17AS,ABS HB,BK07	1	S.N.A
...3	M0105	BN67-00120A	LENS-LED;MATISSE,ACRYL,CLEAR	1	S.N.A
...3	M0145	BN96-01111A	ASSY BOARD P-FUNCTION;MATISSE,FUNCTION	1	S.A
...3	T0245	BN61-01243A	HOLDER-PCB;MJ17,ABS HB,BK07	1	S.N.A
...3	M0007	BN64-00288C	KNOB-FUNCTION;MJ15/17/19,ABS,PC,BK07	1	S.N.A
0.1		BN91-00939E	ASSY LCD-CTZ;MJ17CS*	1	S.N.A
..2	M0215	BN07-00211A	LCD-PANEL;M170E5-L09,MATISSE,6BIT FRC,35	1	S.A
0.1	M0112	BN91-00950W	ASSY SHIELD;LS17MJCKNZ/XSF	1	S.N.A
..2	CCM1	6001-000559	SCREW-MACHINE;FH,+,M3,L6,ZPC(YEL),SWRCH1	4	S.N.A
..2	M0081	6003-000117	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(YEL),SWRC	1	S.A
..2	M0081	6003-000276	SCREW-TAPTITE;BH,+,B,M3,L10,ZPC(YEL),SWC	1	S.N.A
..2	M0135	BH73-60304G	RUBBER-SUPPORT;152X,SILICON,5*7,60#### 5	2	S.N.A
..2	M0114	BN39-00244A	CBF SIGNAL;BU15AO(T541A),15P/15P,20276-N	1	S.A
..2	M2893	BN39-00513A	LEAD CONNECTOR;MJ17AS(BS),UL1571#30,UL/C	1	S.A
..2	M2893	BN39-00523C	LEAD CONNECTOR;MJ17/19*,UL1061#28,UL/CSA	1	S.A
..2	M0145	BN64-00258A	PANEL-SPACER;MJ17AS/BS,ABS HB,BK07	2	S.N.A
..2	T0376	BN96-01059A	ASSY MISC P-SHIELD COVER;MJ17AS/BS,SECC	1	S.N.A
...3	M0107	BN63-01211A	SHIELD-COVER;MJ17AS,SECC,T1.0	1	S.N.A
...3	M0412	BN63-01313A	COVER-INSULATOR;MJ17,19AS/BS,PET,T0.35	1	S.N.A
..2	T0081	BN61-01234A	HOLDER-INVERTER;MATISSE,ABS V0,BK07	2	S.N.A
0.1	M0017	BN91-00965G	ASSY CHASSIS-CTZ,XSF;MJ17CS*,XSF	1	S.A
..2	M0174	BN44-00089B	IP BOARD;IP-35135A (D),MJ17*,3.2~4.8mA,6	1	S.A
..2	M0107	BN61-01102D	BRACKET-PCB;MJ17CS,SECC,T1.0	1	S.A
..2		BN94-00775C	ASSY PCB MAIN-CTZ,XSF;MJ17CS*,CHINA	1	S.N.A
...3	T0245	0202-001366	SOLDER-WIRE FLUX;-,RS60S,D1.2,63Sn/37Pb,	0.001	S.N.A
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	S.A
...3	CN600	3711-004712	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA	1	S.A
...3	M0081	6003-000117	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(YEL),SWRC	5	S.A
...3	M0081	6003-000117	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(YEL),SWRC	2	S.A
...3	T0174	BN97-00699C	ASSY SMD;MJ17CS	1	S.N.A
....4	CIS5	0202-001375	SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36.	0.001	S.N.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D104	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	ZD100	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD101	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD103	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD104	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD105	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD109	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD110	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD201	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD106	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	S.A
....4	ZD200	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	S.A
....4	Q603	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q604	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q409	0505-001957	FET-SILICON;NTR2101P,P,-8V,-3.7A,0.052oh	1	S.A
....4	IC109	1003-001813	IC-LCD CONTROLLER;SE16AWL,PQFP,100P,23.4	1	S.A
....4	IC112	1103-001023	IC-EEPROM;24C08,1Kx8,SOP,8P,5x4mm,2.5/5.	1	S.A
....4	T0087	1203-002425	IC-POSI.FIXED REG.;AP1117,SOT-223,3P,138	1	S.A
....4	T0087	1203-002844	IC-POSI.FIXED REG.;AP1117D-18A,TO-252-3L	1	S.A
....4	R100	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R102	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R103	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R104	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R105	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R245	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R270	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R107	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R108	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R109	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R111	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R112	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R226	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R227	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R228	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R229	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R231	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R233	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R239	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R240	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R242	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R243	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R244	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R247	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R248	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R249	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R250	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R251	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R253	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R254	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R255	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R234	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R124	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R225	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R257	2007-000083	R-CHIP;3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R130	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R201	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R202	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R205	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R208	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R209	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R210	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R212	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R213	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R214	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R215	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R216	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R217	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R218	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R219	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R220	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R230	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R605	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R131	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R236	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R252	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R400	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R401	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R602	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R603	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R604	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R606	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R607	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R106	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	S.A
....4	R403	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	S.A
....4	R113	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R114	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R115	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R126	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R127	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R608	2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	1	S.A
....4	R609	2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	1	S.A
....4	C416	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	S.A
....4	C418	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	S.A
....4	C210	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C109	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C106	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C208	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C209	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C204	2203-000426	C-CER,CHIP;0.018nF,5%,50V,C0G,1608	1	S.A
....4	C120	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
....4	C121	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
....4	C122	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
....4	C111	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C100	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C101	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C102	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C103	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C104	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C105	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C107	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C200	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C207	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C211	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C400	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C402	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C403	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C404	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C405	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C406	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C407	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C408	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C409	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C410	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C411	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C412	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C413	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C414	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C415	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C417	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C419	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C420	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C421	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C423	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C424	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C605	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C607	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C610	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C611	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C615	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C618	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C619	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C620	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C604	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C606	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C614	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C201	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C202	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C205	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C422	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C401	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A
....4	C608	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A
....4	C609	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A
....4	C612	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A
....4	T0052	2703-001334	INDUCTOR-SMD;1.5uH,10%,2012	1	S.A
....4	T0052	2703-001334	INDUCTOR-SMD;1.5uH,10%,2012	1	S.A
....4	X400	2801-003326	CRYSTAL-SMD;24MHz,30ppm,28-ABX,16pF,50oh	1	S.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	CN400	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	S.A
....4	CN200	3711-005543	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	S.A
....4	T0077	BN41-00652B	PCB MAIN;MATISSE/GOYA2,STH,2L,MP1.1,1.6T	1	S.N.A
....4	MICOM	BN97-00700B	ASSY MICOM-CTZ,XSF;MJ17CS*,CHINA	1	S.A
.....5	IC520	0903-001397	IC-MICROCONTROLLER;WT61P4,8Bit,PLCC,44P,	1	S.N.A
0.1	M0019	BN92-01013N	ASSY LABEL;GS17VSSN/XSF,TSED,CHINA	1	S.N.A
..2	CIS	BN68-00761D	MANUAL-01,QSG;Protection Sheet,SyncMaste	1	S.N.A
0.1	M0113	BN92-01071V	ASSY P/MATERIAL;MJ17ASKB/EDC,EDC	1	S.N.A
..2	T0524	6902-000111	BAG PE;HDPE,T0.015,L800,W650,TRP,28,4,PE	1	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,--	0.002	S.N.A
..2	P/M	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	3	S.N.A
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.1	S.N.A
0.1	M0003	BN92-01605K	ASSY BOX;LS17MJCKNZ/XSF	1	S.N.A
..2	M0120	BH75-10529A	UNIT-HANDLE PACKING;LXA410TLMU,PE,-,WHIT	1	S.N.A
...3	M0103	BN72-60001A	LEVER-TOP;LSD210TL,PE-LD,WHITE,TFT_LCD	1	S.N.A
...3	M0102	BN72-60002A	LEVER-BOTTOM;LSD210TL,PE-LD,WHITE,TFT-LC	1	S.N.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
..2	BOX	BN69-01021E	BOX-00,SET;S/M711N(MJ17CS),SY-01,YEL,A-1	1.01	S.N.A
0.1	M0045	BN92-01608B	ASSY ACCESSORY;LS17MJCKBZ/XSF	1	S.N.A
..2	M0013	BN96-01461B	ASSY STAND P-BASE;MATISSE 15/17,ABS HB,B	1	S.A
...3	M0081	6003-000142	SCREW-TAPTITE;FH,+,B,M3,L8,ZPC(BLK),SWRC	6	S.N.A
...3	CIS4	BN61-01435A	HOLDER-STAND;CH,+,M4,L10(4),ZPC(WHT),SWR	1	S.N.A
...3	M0111	BN63-01489B	COVER-STAND;MJ17,ABS,HB,BK07	1	S.N.A
...3	STAND/BASE	BN63-01490A	COVER-STAND BASE;MJ17,ABS HB,BK07	1	S.N.A
...3	CIS3	BN68-00473W	MANUAL INSTALL;Goya2 Stand Guide,SyncMas	1	S.N.A
...3	M0126	BN73-00077A	RUBBER-FOOT;MATISSE,BUMPON,##13.5,T2.0,6	4	S.N.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
..2	M0045	BN96-02798L	ASSY ACCESSORY;LS17MJCKNZ/XSF	1	S.A
...3	T0268	3903-000082	CBF-POWER CORD;DT,CN,IP3/YES(A),I(IEC C1	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	ACCESSORY	BH75-00146B	UNIT-07,WARRANTY;CHINA,-,ASS'Y-W/CARD,BH	1	S.N.A
....4		BH68-00297E	MANUAL-ETC;SAMSUNG BASIC,SAMSUNG,C,CHINA	1	S.N.A
....4	CIS	BH68-00297F	MANUAL-ETC;ENVELOPE,SAMSUNG,C,CHINA,MOJO	1	S.N.A
...3	M0215	BN96-00840H	ASSY MANUAL P-IB+QSG;LS17MJCKNZ/XSF,Sync	1	S.N.A
....4	M0808	BH68-00376L	MANUAL-04;LCDQUICK SETUP GUIDE,SYNCMASTE	1	S.N.A
....4	IB	BN59-00391H	S/W DRIVER-00,IB;LS17MJCKNZ/XSF,W/W,Sync	1	S.N.A
...3	M0113	BH68-70455A	CARD-TESTED GOODS;ALL (CHINA),SAMAUNG,CH	1	S.N.A

7-2 LS17MJCKNZ/XSF Parts list

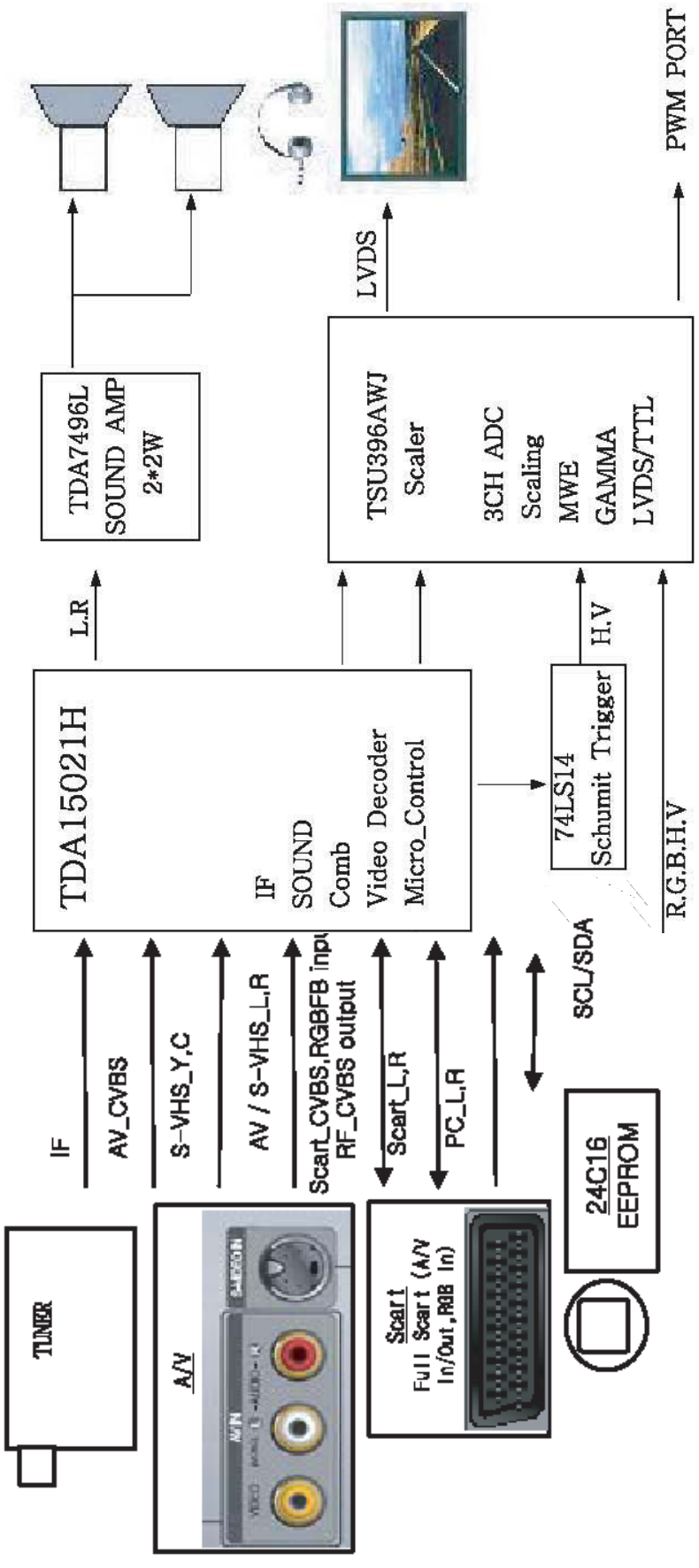
Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LS17MJCKNZ/XSF	711N,SGL4/S17AK-LMJ,17,LCD-MO,CHINA		
0.1	M0216	BN90-00329R	ASSY STAND;GS15/17, MJ15/17AS,IV16	1	S.N.A
..2	M0216	BN96-01063B	ASSY STAND P-SIMPLE;MJ15,17AS BS,ABS HB,	1	S.A
...3	M0081	6003-000269	SCREW-TAPTITE;BH,+,-,S,M3,L6,ZPC(YEL),SW	2	S.N.A
...3	STD	BN61-00822A	STAND-BRKT HINGE;GS17VS,SECC,T1.2	1	S.N.A
...3	T0063	BN61-00825B	STAND-FRONT;ABS,MJ15AS,HB IV16	1	S.N.A
...3	T0081	BN61-00826B	STAND-REAR;ABS,MJ15AS,HB IV16	1	S.N.A
...3	M0122	BN96-01061A	ASSY MISC P-HINGE;MJ15-17AS/BS,ZNDC2	1	S.N.A
...3	M0081	6003-000277	SCREW-TAPTITE;BH,+,B,M3,L12,ZPC(YEL),SWR	4	S.N.A
0.1	M0002	BN90-00643F	ASSY COVER REAR;MJ17ASSN,ADC,IV16	1	S.N.A
..2	M0081	6003-000336	SCREW-TAPTITE;BH,+,-,S,M4,L10,SN PLT,SWR	4	S.N.A
..2	M0013	BN96-01054C	ASSY COVER P-REAR;MJ17AS,ABS HB,IV16	1	S.A
...3	M0113	BN61-00377A	BRACKET-VESA;GOYA19"(193V),SECC,T1.0	1	S.A
...3	M0006	BN63-01209C	COVER-REAR;MJ17AS,ABS HB,IV16	1	S.N.A
0.1	M0001	BN90-00817J	ASSY COVER FRONT;LS17MJCKNZ/XSF	1	S.N.A
..2	M0081	6003-001322	SCREW-TAPTITE;BH,+,-,B,M3,L12,NI PLT,SWR	2	S.N.A
..2	T0003	BN96-01997L	ASSY COVER P-FRONT;MJ17AS (S/M 711N),ABS	1	S.A
0.1		BN91-00939E	ASSY LCD-CTZ;MJ17CS*	1	S.N.A
..2	M0215	BN07-00211A	LCD-PANEL;M170E5-L09,MATISSE,6BIT FRC,35	1	S.A
0.1	M0112	BN91-00950W	ASSY SHIELD;LS17MJCKNZ/XSF	1	S.N.A
..2	CCM1	6001-000559	SCREW-MACHINE;FH,+,M3,L6,ZPC(YEL),SWRCH1	4	S.N.A
..2	M0081	6003-000117	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(YEL),SWRC	1	S.A
..2	M0081	6003-000276	SCREW-TAPTITE;BH,+,B,M3,L10,ZPC(YEL),SWC	1	S.N.A
..2	M0135	BH73-60304G	RUBBER-SUPPORT;152X,SILICON,5*7,60#### 5	2	S.N.A
..2	M0114	BN39-00244A	CBF SIGNAL;BU15AO(T541A),15P/15P,20276-N	1	S.A
..2	M2893	BN39-00513A	LEAD CONNECTOR;MJ17AS(BS),UL1571#30,UL/C	1	S.A
..2	M2893	BN39-00523C	LEAD CONNECTOR;MJ17/19*,UL1061#28,UL/CSA	1	S.A
..2	M0145	BN64-00258A	PANEL-SPACER;MJ17AS/BS,ABS HB,BK07	2	S.N.A
..2	T0376	BN96-01059A	ASSY MISC P-SHIELD COVER;MJ17AS/BS,SECC	1	S.N.A
...3	M0107	BN63-01211A	SHIELD-COVER;MJ17AS,SECC,T1.0	1	S.N.A
...3	M0412	BN63-01313A	COVER-INSULATOR;MJ17,19AS/BS,PET,T0.35	1	S.N.A
..2	T0081	BN61-01234A	HOLDER-INVERTER;MATISSE,ABS V0,BK07	2	S.N.A
0.1	M0017	BN91-00965G	ASSY CHASSIS-CTZ,XSF;MJ17CS*,XSF	1	S.A
..2	M0174	BN44-00089B	IP BOARD;IP-35135A (D),MJ17*,3.2~4.8mA,6	1	S.A
..2	M0107	BN61-01102D	BRACKET-PCB;MJ17CS,SECC,T1.0	1	S.A
..2		BN94-00775C	ASSY PCB MAIN-CTZ,XSF;MJ17CS*,CHINA	1	S.N.A
...3	T0245	0202-001366	SOLDER-WIRE FLUX;-,RS60S,D1.2,63Sn/37Pb,	0.001	S.N.A
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	S.A
...3	CN600	3711-004712	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA	1	S.A
...3	M0081	6003-000117	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(YEL),SWRC	5	S.A
...3	M0081	6003-000117	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(YEL),SWRC	2	S.A
...3	T0174	BN97-00699C	ASSY SMD;MJ17CS	1	S.N.A
....4	CIS5	0202-001375	SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36.	0.001	S.N.A
....4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	D104	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	S.A
....4	ZD100	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD101	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD103	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD104	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD105	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD109	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD110	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD201	0403-001411	DIODE-ZENER;-,5.49-5.73V,200MW,SOD-323,T	1	S.A
....4	ZD106	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	S.A
....4	ZD200	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	S.A
....4	Q603	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q604	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q409	0505-001957	FET-SILICON;NTR2101P,P,-8V,-3.7A,0.052oh	1	S.A
....4	IC109	1003-001813	IC-LCD CONTROLLER;SE16AWL,PQFP,100P,23.4	1	S.A
....4	IC112	1103-001023	IC-EEPROM;24C08,1Kx8,SOP,8P,5x4mm,2.5/5.	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	T0087	1203-002425	IC-POSI.FIXED REG.;AP1117,SOT-223,3P,138	1	S.A
....4	T0087	1203-002844	IC-POSI.FIXED REG.;AP1117D-18A,TO-252-3L	1	S.A
....4	R100	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R101	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R102	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R103	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R104	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R105	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R245	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R270	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R107	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R108	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R109	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R110	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R111	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R112	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R226	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R227	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R228	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R229	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R231	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R233	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R239	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R240	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R242	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R243	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R244	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R247	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R248	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R249	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R250	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R251	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R253	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R254	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R255	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R234	2007-000077	R-CHIP;470ohm,5%,1/10W,TP,1608	1	S.A
....4	R124	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R225	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R257	2007-000083	R-CHIP;3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R130	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R201	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R202	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R205	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R208	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R209	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R210	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R212	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R213	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R214	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R215	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R216	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R217	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R218	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R219	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R220	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R230	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R605	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R131	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R236	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R252	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R400	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R401	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R602	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R603	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R604	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R606	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R607	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R106	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	S.A
....4	R403	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	S.A
....4	R113	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R114	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R115	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R126	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R127	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R608	2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	1	S.A
....4	R609	2007-002899	R-CHIP;10ohm,1%,1/10W,TP,1608	1	S.A
....4	C416	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	S.A
....4	C418	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	S.A
....4	C210	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C109	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C106	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C208	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C209	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C204	2203-000426	C-CER,CHIP;0.018nF,5%,50V,C0G,1608	1	S.A
....4	C120	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
....4	C121	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
....4	C122	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
....4	C111	2203-000998	C-CER,CHIP;0.047nF,5%,50V,C0G,1608	1	S.A
....4	C100	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C101	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C102	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C103	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C104	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C105	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C107	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C200	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C207	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C211	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C400	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C402	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C403	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C404	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C405	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C406	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C407	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C408	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C409	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C410	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C411	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C412	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C413	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C414	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C415	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C417	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C419	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C420	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C421	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C423	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C424	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C605	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C607	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C610	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C611	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C615	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C618	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C619	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C620	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C604	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C606	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C614	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C201	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C202	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C205	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C422	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A

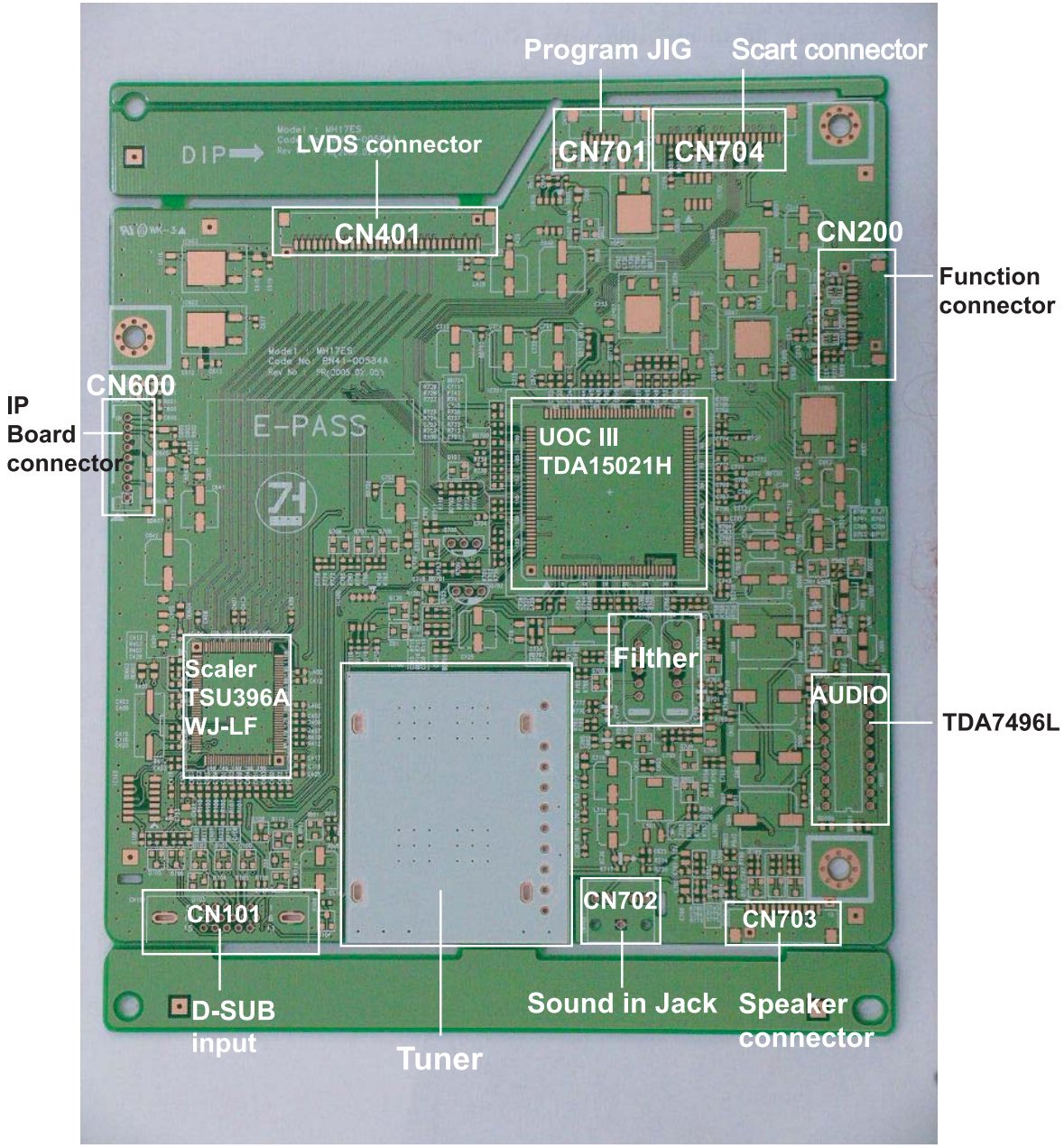
Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C401	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A
....4	C608	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A
....4	C609	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A
....4	C612	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	S.A
....4	T0052	2703-001334	INDUCTOR-SMD;1.5uH,10%,2012	1	S.A
....4	T0052	2703-001334	INDUCTOR-SMD;1.5uH,10%,2012	1	S.A
....4	X400	2801-003326	CRYSTAL-SMD;24MHz,30ppm,28-ABX,16pF,50oh	1	S.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60OHM,4516,6000,TP,70OHM/45MHZ,	1	S.N.A
....4	CN400	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	S.A
....4	CN200	3711-005543	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	S.A
....4	T0077	BN41-00652B	PCB MAIN;MATISSE/GOYA2,STH,2L,MP1.1,1.6T	1	S.N.A
....4	MICOM	BN97-00700B	ASSY MICOM-CTZ,XSF;MJ17CS*,CHINA	1	S.A
.....5	IC520	0903-001397	IC-MICROCONTROLLER;WT61P4,8Bit,PLCC,44P,	1	S.N.A
0.1	M0019	BN92-01013N	ASSY LABEL;GS17VSSN/XSF,TSED,CHINA	1	S.N.A
..2	CIS	BN68-00761D	MANUAL-01,QSG;Protection Sheet,SyncMaste	1	S.N.A
0.1	M0113	BN92-01071V	ASSY P/MATERIAL;MJ17ASKB/EDC,EDC	1	S.N.A
..2	T0524	6902-000111	BAG PE;HDPE,T0.015,L800,W650,TRP,28,4,PE	1	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,--	0.002	S.N.A
..2	P/M	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	3	S.N.A
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.1	S.N.A
0.1	M0003	BN92-01605K	ASSY BOX;LS17MJCKNZ/XSF	1	S.N.A
..2	M0120	BH75-10529A	UNIT-HANDLE PACKING;LXA410TLMU,PE,-,WHIT	1	S.N.A
...3	M0103	BN72-60001A	LEVER-TOP;LSD210TL,PE-LD,WHITE,TFT_LCD	1	S.N.A
...3	M0102	BN72-60002A	LEVER-BOTTOM;LSD210TL,PE-LD,WHITE,TFT-LC	1	S.N.A
..2	BOX	BN69-01021E	BOX-00,SET;S/M711N(MJ17CS),SY-01,YEL,A-1	1.01	S.N.A
0.1	M0045	BN92-01608A	ASSY ACCESSORY;LS17MJCKNZ/XSF	1	S.N.A
..2	M0013	BN96-01461C	ASSY STAND P-BASE;MATISSE 15/17,ABS HB,I	1	S.A
...3	M0081	6003-000142	SCREW-TAPTITE;FH,+,B,M3,L8,ZPC(BLK),SWRC	6	S.N.A
...3	CIS3	BN68-00473W	MANUAL INSTALL;Goya2 Stand Guide,SyncMas	1	S.N.A
...3	M0126	BN73-00077A	RUBBER-FOOT;MATISSE,BUMPON,##13.5,T2.0,6	4	S.N.A
...3	M0111	BN63-01489C	COVER-STAND;MJ17,ABS,HB,IV16	1	S.N.A
...3	STAND/BASE	BN63-01490B	COVER-STAND BASE;MJ17,ABS,HB,IV16	1	S.N.A
...3	CIS4	BN61-01435A	HOLDER-STAND;CH,+,M4,L10(4),ZPC(WHT),SWR	1	S.N.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
..2	M0045	BN96-02798L	ASSY ACCESSORY;LS17MJCKNZ/XSF	1	S.A
...3	T0268	3903-000082	CBF-POWER CORD;DT,CN,IP3/YES(A),I(IEC C1	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	ACCESSORY	BH75-00146B	UNIT-07,WARRANTY;CHINA,-,ASS'Y-W/CARD,BH	1	S.N.A
....4		BH68-00297E	MANUAL-ETC;SAMSUNG BASIC,SAMSUNG,C,CHINA	1	S.N.A
....4	CIS	BH68-00297F	MANUAL-ETC;ENVELOPE,SAMSUNG,C,CHINA,MOJO	1	S.N.A
...3	M0215	BN96-00840H	ASSY MANUAL P-IB+QSG;LS17MJCKNZ/XSF,Sync	1	S.N.A
....4	M0808	BH68-00376L	MANUAL-04;LCDQUICK SETUP GUIDE,SYNCMASTE	1	S.N.A
....4	IB	BN59-00391H	S/W DRIVER-00,IB;LS17MJCKNZ/XSF,W/W,Sync	1	S.N.A
...3	M0113	BH68-70455A	CARD-TESTED GOODS;ALL (CHINA),SAMAUNG,CH	1	S.N.A

7 Block Diagram



Memo

12 PCB Diagram



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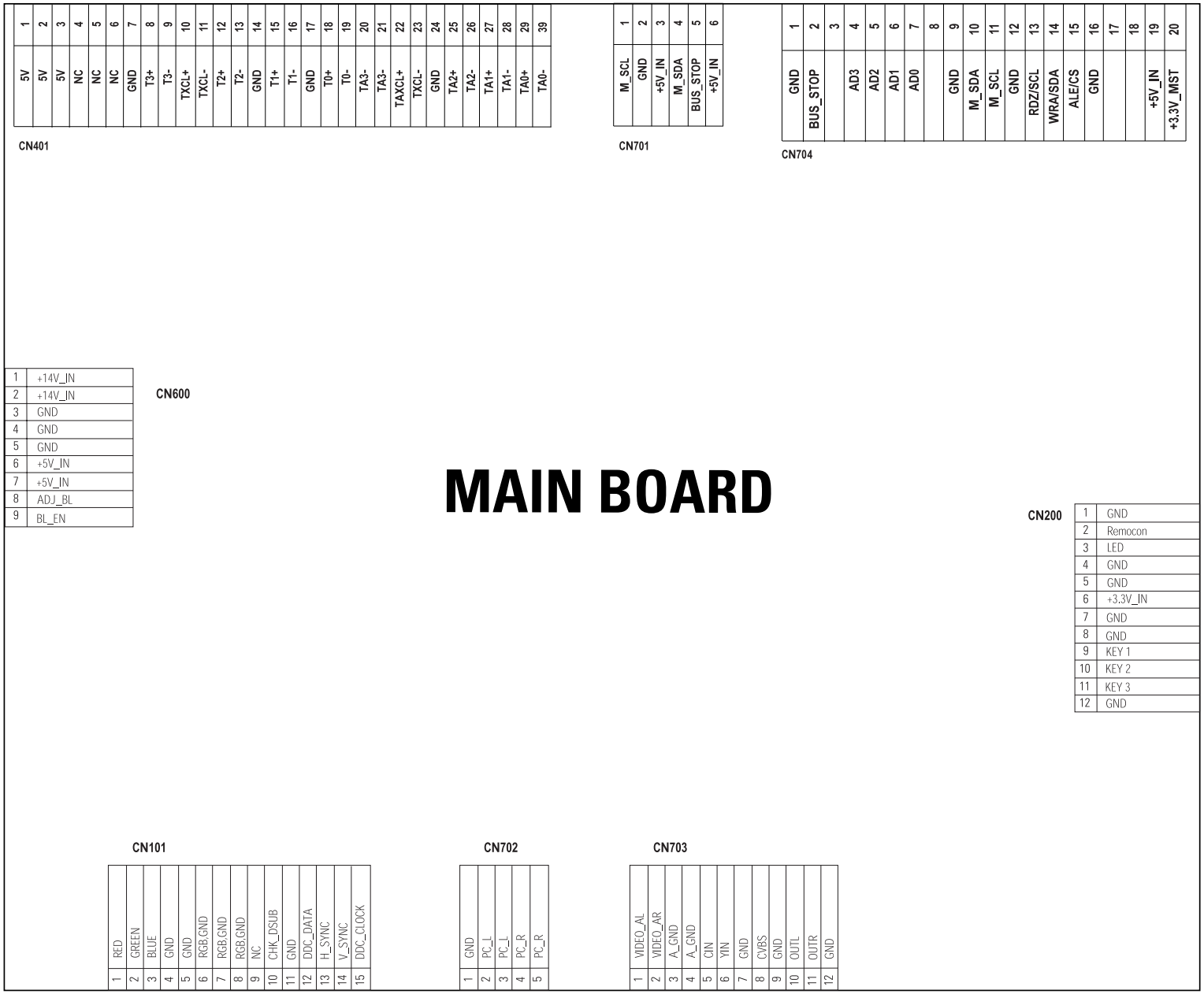
8 Wiring Diagram



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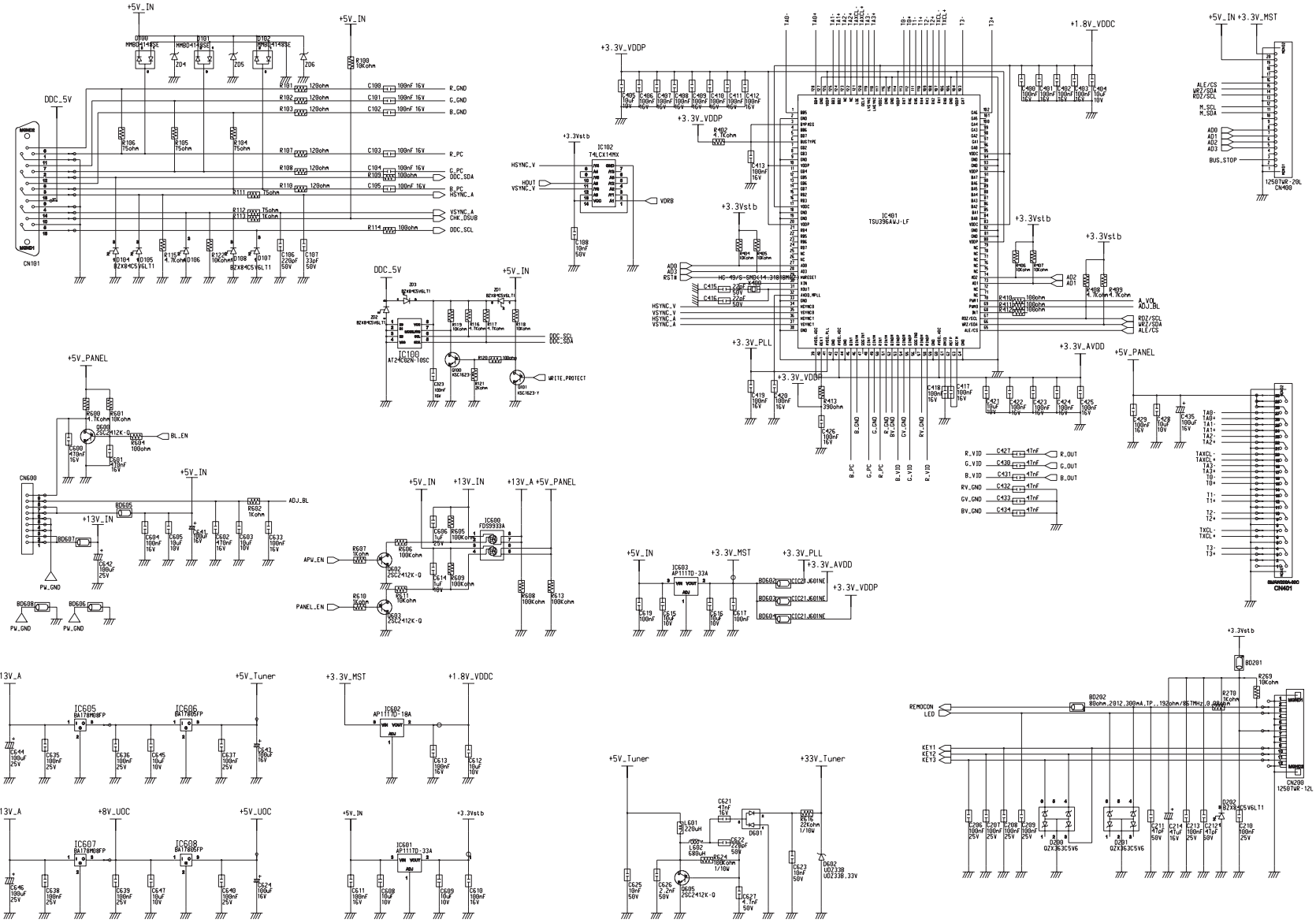
9 Schematic Diagrams

- This Document can not be used without Samsung s authorization.

9-1 Schematic Diagrams



9-2 Schematic Diagrams